

<b>Project #</b>	200107	<b>Project Title:</b>	Northview Demolition
<b>Department:</b>	DPW – Projects Division	<b>Sponsor:</b>	Dennis Ceretta
<b>Phase:</b>	Implementation	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	C - \$ Update	<b>Date:</b>	12/22/03

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2001	2004	Total	
Project Phase	Construction/Demolition	Construction/Demolition	Project	
Expenditure Budget	\$675,000	\$299,400	\$974,400	
Revenue Budget	\$0	\$0	\$0	
Net County Cost	\$675,000	\$299,400	\$974,400	
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>	
Professional Services	\$70,000			
Construction	\$838,600			
Contingency	\$65,800			
Total Project Cost	\$974,400	Total Revenue	\$0	
<b>EXPENDITURE BUDGET</b>	\$974,400	<b>REVENUE BUDGET</b>	\$0	

### **Project Scope & Description**

The scope of this project includes the demolition of a portion of the Northview Complex. The portion of the complex which will be razed is comprised of the "1904 Building" and the "1950 Addition" which are located at the east end of the complex, which taken together, include approximately 90,350 GSF of floor area and approximately 1,080,000 CF of enclosed space. At this time, all of the space is unoccupied, with the exception of a portion of the Ground floor of the "1904 Building" which is occupied by the Waukesha County Metropolitan Drug Unit. The Drug Unit will be relocated to another unoccupied area of the building under capital project 200329 approved in 2003.

### **Location**

Northview Grounds  
1400 Northview Road

### **Analysis of Need**

The 1904 section of the complex was vacated in 1993. The county has determined that allocating additional funds in this building will not achieve a return on the investment (business incubator project analysis). The roof has leaked for years and the water has damaged large areas to the point where suitable repairs would not be economically feasible. The building does not meet existing building codes and it would be cost prohibitive to bring the building into compliance.

### **Alternatives**

None

### **Ongoing Operating Costs**

### **Previous Action**

The Waukesha County Board voted in a previous action that the building be razed.

<b>Project #</b>	200426	<b>Project Title:</b>	NV Laundry/Boiler Demolition
<b>Department:</b>	DPW – Projects Division	<b>Sponsor:</b>	Dennis Ceretta
<b>Phase:</b>	Implementation	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	New	<b>Date:</b>	12/22/03 2:44 PM

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004		Total
Project Phase	Construction/Demolition		Project
Expenditure Budget	\$365,400		\$365,400
Revenue Budget	\$0		\$0
Net County Cost	\$365,400		\$365,400
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Professional Services	\$17,000		
Construction	\$321,400		
Contingency	\$27,000		
Total Project Cost	\$365,400	Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	<b>\$365,400</b>	<b>REVENUE BUDGET</b>	<b>\$0</b>

**Project Scope & Description**

The scope of this project includes the demolition of the abandoned laundry and boiler room which includes approximately 280,000 CF of enclosed space.

**Location**

Northview Grounds  
1400 Northview Road

**Analysis of Need**

The old Northview boiler room was abandoned in 2003. The county has determined that investing additional funds in the unoccupied portions of the building is not cost effective. The roof has leaked for years and the water has damaged large areas to the point where suitable repairs would not be economically feasible. The heating system is grossly inefficient. Much of the system has simply been abandoned, resulting in very high energy usage to keep the building from freezing.

**Alternatives**

None

**Ongoing Operating Costs**

**Previous Action**

The Waukesha County Board voted in a previous action that the 1904 and 1950 addition portions of the building be razed. Proposed as new project in 2004-2008 plan.

<b>Project #</b>	200415	<b>Project Title:</b>	Human Services Bldg. AHU Replacement
<b>Department:</b>	DPW – Building Ops.	<b>Sponsor:</b>	Mark P. Keckeisen
<b>Phase:</b>	Design and Construction	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	New	<b>Date:</b>	12/22/03 2:45 PM

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004		Total
Project Phase	Design & Construction		Project
Expenditure Budget	\$219,000		\$219,000
Revenue Budget	\$0		\$0
Net County Cost	\$219,000		\$219,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Architect	\$35,000		
Construction	\$168,000		
Contingency	\$16,000		
Total Project Cost	\$219,000	Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	\$219,000	<b>REVENUE BUDGET</b>	\$0

**Project Scope & Description**

The scope of the project is the design/engineering and replacement of six Air Handling Units (Units 2-8-10-19-20-24) and the re-engineering of other existing Air Handling Units that may include relocation, combining or separating to improve the air distribution and maximize the energy saving potential of the EMS system installed at this facility in 2003.

**Location**

Waukesha County Human Services Center  
500 Riverview Avenue  
Waukesha, WI 53188

**Analysis of Need**

The 6 Air Handling Units to be replaced are 25 plus years of age and past their useful life expectancy. The replacement of these units is in keeping with the long range planning of the Human Services Center (H.V.A.C.) up grades. There are a total of 34 units that serve the Human Service Center. Since 2000 5 units have been replaced. The units that we are requesting to replace have been identified in an analysis/survey conducted by the Facilities Management Staff noting the units age, condition, and operational efficiency. The units requested for replacement are not reliable from the standpoint of needed maintenance/repairs and energy consumption. The units for replacement at present don't meet the Wisconsin Enrolled Commercial Building Code in relation to the units operation and more importantly the stringent indoor air quality standards that are required. The replacement of these outdated units is important to the health, safety, and productivity of the staff that are served by them in the office environment.

The redesign of the other existing Air Handling Units is required to ensure that the distribution of conditioned air through the facility provides the amount of conditioned air needed to meet building codes and in a manner that is energy efficient and cost effective.

The existing AHU systems are a collection of individual units that have been installed independently over the years to help solve some local problem without any global building HVAC analysis. In some cases these independent units work against each other from a heating and cooling standpoint creating a situation of high energy use and the inability to meet the temperature control needs of the occupants.

**Alternatives**

Continue to use the existing (H.V.A.C.) Equipment Air Handling Units and disregard these needs and operate in an ever-increasing inefficient manner.

**Ongoing Operating Costs**

A decision not to implement the Capital Plan will cost Waukesha County ongoing high maintenance and energy costs. Implementation of the plan will drive annual operational costs of maintenance and energy consumption down with a projected equipment pay back of 5 to 7 years.

**Previous Action**

The replacement of the (H.V.A.C.) Air Handling Units has been in progress in the Building Operations Division 5 Year Building Improvement Plan since 2000. Demonstrating the long-range plans of the department to upgrade the infrastructure of the Human Services Center. The installation of the Energy Management System in 2003 will allow efficient control of energy usage at the unit. Proposed as new project in 2004-2008 plan.

<b>Project #</b>	9919	<b>Project Title:</b>	UW-Waukesha Northview Hall 133
<b>Department:</b>	Public Works	<b>Sponsor:</b>	UW-Waukesha
<b>Phase:</b>	Design	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:45 PM

<b>CAPITAL BUDGET SUMMARY</b>				
<b>Year</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>Total</b>
<b>Project Phase</b>	<b>Concept/Budget</b>	<b>Design</b>	<b>Construction</b>	<b>Project</b>
Expenditure Budget	\$5,000	\$25,000	\$324,000	\$354,000
Revenue Budget	\$0	\$0	\$0	\$0
Net County Cost	\$5,000	\$25,000	\$324,000	\$354,000
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>	
Architect	\$30,000		State Funds	\$175,000
Construction	\$300,000			
Furnishings*	\$50,000			
Audio Visual Equip.*	\$25,000			
Distance Ed. Equip.*	\$100,000			
Contingency	\$24,000			
<b>Total Project Cost</b>	<b>\$529,000</b>		<b>Total Revenue</b>	<b>\$175,000</b>
*State Funded				
<b>EXPENDITURE BUDGET *</b>	<b>\$354,000</b>		<b>REVENUE BUDGET</b>	<b>\$0</b>
Contingent on State Funding				

### **Project Scope & Description**

Northview Hall was built in 1966. This lecture hall has fixed tables and seating from that era. Classroom modification funds provided for installation of some multi-media equipment, but no other changes have been made since 1966. This project would refurbish NV 133, the largest lecture hall on the campus, so that it is compatible with current pedagogy. Bring the toilet rooms next to this room up to ADA expectations.

### **Location**

UW-Waukesha - Northview Hall 133

### **Analysis of Need**

After more than 35 years of use as a large lecture hall, NV 133 could be used more effectively for instruction if it were equipped with current era seating and arranged to reflect the changes that have occurred in pedagogy. New learning technologies call for a different environment.

### **Alternatives**

Do nothing.

### **Ongoing Operating Costs**

Costs are expected to remain unchanged

### **Previous Action**

Approved as a new project in 1999-2003 Capital Plan and as planned in subsequent Capital Plans. Approved to include state equipment in 2001-2005 Plan.

<b>Project #</b>	9920	<b>Project Title:</b>	Lower Northview Hall Refurbishing
<b>Department:</b>	Public Works	<b>Sponsor:</b>	UW-Waukesha
<b>Phase:</b>	Design	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:45 PM

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2003	2004	2005	Total
Project Phase	Concept/Budget	Design	Construction	Project
Expenditure Budget	\$75,000	\$200,000	\$2,700,000	\$2,975,000
Revenue Budget	\$0	\$0	\$0	\$0
Net County Cost	\$75,000	\$200,000	\$2,700,000	\$2,975,000
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>	
Moveable Equipment*	\$405,905		State Funds	\$1,217,717
Special Equipment*	\$405,905			
Telecommunications*	\$405,907			
Architect	\$275,000			
Construction	\$2,500,000			
Contingency	\$200,000			
Total Project Cost	\$4,192,717		Total Revenue	\$1,217,717
*State Funded				
<b>EXPENDITURE BUDGET*</b>	\$2,975,000		<b>REVENUE BUDGET</b>	\$0
* Contingent on State funding				

### **Project Scope & Description**

Refurbish classrooms in the lower level of Northview Hall. Northview Hall was built in 1966 and later expanded in 1978. The space encompasses three biological science labs, specialized classrooms for anthropology and psychology, and general classrooms.

### **Location**

UW-Waukesha - Lower Northview Hall

### **Analysis of Need**

The biological science labs were built in 1966. Changes in this discipline and how it is taught are striking. Both the spaces used (County funded) and the equipment (State funded) need to be updated. The same is true for other classrooms in the building, although the costs will not be as high.

### **Alternatives**

Lab and classroom modification monies have provided minor improvements, and the spaces need attention. The alternative is to ignore the need. This will create a situation where, especially for the biological sciences, curriculum is not taught using modern technology and concepts.

### **Ongoing Operating Costs**

Costs are expected to remain unchanged.

### **Previous Action**

Approved as a new project in the 1999-2003 Capital Plan and as planned in 2000-2004 Plan. Approved to include state equipment in 2001-2005 Plan and as planned in subsequent years.

<b>Project #</b>	200318	<b>Project Title:</b>	UWW Switch/Transformer/Cable Replacement
<b>Department:</b>	Public Works	<b>Sponsor:</b>	Dean – Brad Stewart
<b>Phase:</b>	Construction	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:46 PM

<b>CAPITAL BUDGET SUMMARY</b>			
<b>Year</b>	<b>2003</b>	<b>2004</b>	<b>Total</b>
<b>Project Phase</b>	<b>Design</b>	<b>Construction</b>	<b>Project</b>
Expenditure Budget	\$40,000	\$420,000	\$460,000
Revenue Budget	\$0	\$0	\$0
Net County Cost	\$40,000	\$420,000	\$460,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Architect	\$39,000		
Construction	\$388,800		
Contingency	<u>\$31,200</u>		
Total Project Cost	\$459,000	Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	<b>\$460,000</b>	<b>REVENUE BUDGET</b>	<b>\$0</b>

### **Project Scope & Description**

Replace five (5) oil filled transformer switches located in various buildings at UW- Waukesha including the replacement of the 5kV cabling that connects the power to the system. All work will need to be completed when classes are not in session or during evenings and weekends.

### **Location**

University of Wisconsin – Waukesha  
1500 University Drive  
Waukesha, WI

### **Analysis of Need**

The transformer switches and cabling are all over 30 years old and are part of the original campus electrical system. The switches are no longer used in the industry because they have become obsolete and dangerous to operate, have track record of leaking oil and are an ineffective disconnect. Also, parts are no longer available. In one of the switches we are unable to check the amount of oil during routine maintenance. Near another one of the switches, during the last maintenance check, a small amount of oil was discovered. A failure could cause a fire or explosion.

### **Alternatives**

#1 – Do nothing until the switches fail, replace them and repair collateral damage.

### **Ongoing Operating Costs**

None. This is a safety improvement project.

### **Previous Action**

Regular maintenance and inspection of switches costs approximately \$9,000 every three years. Approved as new project in 2003-2007 plan.

<b>Project #</b>	FAC-200328	<b>Project Title:</b>	Crthse/Admin Center Security
<b>Department:</b>	DPW – Building Ops.	<b>Sponsor:</b>	Public Works/Public Safety
<b>Phase:</b>	Implementation	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	C - \$ Update, C-Scope	<b>Date:</b>	December 22, 2003, 2:46 PM

<b>CAPITAL BUDGET SUMMARY</b>					
Year	2003	2004	2005	2006	
Project Phase	Implementation	Implementation	Implementation	Implementation	Total
Expenditure Budget	\$60,000	\$120,000	\$40,000	\$40,000	\$ 260,000
Revenue Budget	\$60,000	\$120,000	\$40,000	\$40,000	\$ 260,000
Net County Cost	\$0	\$0	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>		
Equipment Costs	\$ 245,000		Project will not proceed without Grant funding- (Federal Terrorism or Domestic Preparedness Equipment Grant )		
Contingency	\$ 15,000		To be determined		\$200,000
Total Project Cost	\$ 260,000		2003 grant approved		\$60,000
			Total Revenue		\$260,000
EXPENDITURE BUDGET	\$ 260,000		REVENUE BUDGET		\$260,000

\* County project funding will be released only upon approval of Executive Committee after review of availability of outside grant funding.

#### **Project Scope & Description**

It is anticipated that this project will be implemented in phases. In 2004, we will continue progress on securing and monitoring all perimeter doors in the Courthouse/Administrative Center. The two public access doors will have metal detectors available to be used on a situational basis in periods of alert, if they occur, and to be utilized for testing and training purposes. Due to independent after hours use of both the Courthouse and the Administration Center partitions with access control would be installed in the connectors between the Courthouse and the Administration Center. In 2004 a Security risk assessment will be conducted on other County Facilities. Upon completion a County Building Security Improvement plan will be developed. Due to the security and tracking benefits of card access we would continue to secure and monitor perimeter doors on other county facilities as security assessments and available funding dictates.

#### **Location**

County Courthouse and Administration Building. Other county buildings in future years.

#### **Analysis of Need**

There are increasing numbers of "...adversarial business and cases that are potentially volatile in nature" in the courts and other areas of the Courthouse and Administration Building. Reducing the possibility of violence in these facilities is a goal of the courts, administration and law enforcement. The greatest concern to all these groups is the introduction of weapons into the facility, which greatly increases the risk of injury or death to the participants and the public at large. See Courthouse and Administration Complex Security Plan adopted by the Security and Facilities Committee August, 2002

#### **Alternatives**

Increased level of screening personnel at entrances; reduce number of entrances allowed to be accessed by staff from the proposed 16.

#### **Ongoing Operating Costs**

Maintenance, Equipment:	\$5,000
Badges	1,500
Total	\$6,500

#### **Previous Action**

Campus Security Position (Sworn) full time, 1996. Installation of additional emergency response notification devices. Non-sworn security during non-business hours, 1999. Facility security committee, ongoing since 1998. In 2003, access to the courthouse/administration center for the public will be directed to two access doors (Courthouse main entrance door and Administration Center main entrance door). These doors will be equipped with digital recording devices and access card readers for after hours entry. Access by employees will be through the public access doors as well as through "Employee Only " doors that are equipped with card readers. During non business hours, employees will access the facilities through doors equipped with card readers. Proposed as new in 2003-2007 plan.

<b>Project #</b>	FAC-200108	<b>Project Title:</b>	Justice Facility Project Phase I
<b>Department:</b>	Public Works - Buildings	<b>Sponsor:</b>	Sheriff
<b>Phase:</b>	Construction	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	C – Scope, \$ Update	<b>Date:</b>	December 22, 2003, 2:47 PM

<b>CAPITAL BUDGET SUMMARY</b>							
Year	2001	2002*	2003	2004	2005	2006	
Project Phase	Budget & Concept	Architect & Engineering	Construction	Construction	Construction	Funds trnsfed to separate project	Total
Expenditure Budget	\$75,000	\$3,650,000	\$8,340,000	\$10,000,000	\$11,800,000		\$33,865,000
Revenue Budget	\$75,000	\$0	\$1,340,000	\$4,370,570	\$0		\$5,785,570
Net County Cost	\$0	\$3,650,000	\$7,000,000	\$5,629,430	\$11,800,000		\$28,079,430
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>				
		Phase I			2003 & prior	2004	2005
Budget & Concept	\$	75,000	Jail Assessment revenue				
Architect & Engineering and Construction Manager	\$	2,850,000	from prior years	\$1,175,000	\$3,600,000		\$0
Construction	\$	28,640,000	Federal Prisoner from	240,000	770,570		0
Contingency	\$	2,300,000	prior years				
Total Project Cost	\$	33,865,000	Total Revenue	\$1,415,000	\$4,370,570		\$0
<b>EXPENDITURE BUDGET</b>	\$	33,865,000	<b>REVENUE BUDGET</b>	\$5,785,570			

\*The 2002 budget for \$4.7 million in jail assessment fees was modified by ordinance to re-allocate the revenue to 2003 and reduce 2003 planned borrowing. The 2002 reduction was offset with an increase in the planned borrowing from \$9.9 million to \$14.6 million to take advantage of historically low interest rates in 2002.

#### **Project Scope & Description**

The project scope for the Phase I Jail Expansion will consist of a new 5-story jail structure (including basement) and result in the addition of approximately 278 new beds of capacity. The new jail structure and related facility amenities will be built to the east of the existing Justice center, east of the present, October 2002 alignment of Riverview Avenue and south of Moreland Boulevard on the main campus grounds of the Waukesha County Governmental Center, eliminating the need to relocate Riverview Avenue. A parking lot needed to replace parking lost due to construction will be constructed east of Riverview Avenue. Phase I will include attendant jail support areas i.e. public visiting area, medical area, laundry. The garage on the south side of the main jail will be demolished to make room for the Phase I addition. Renovation during Phase I will be concentrated in the existing Justice Center. The renovations will enlarge the kitchen and simplify movement through corridors by eliminating unnecessary walls and doors, update the existing security electronics, and integrate the system with the new jail addition.

#### **Location**

The project will be located east of the existing Justice facility on the main campus grounds of the Waukesha County Governmental Center located to the south of Moreland Boulevard.

#### **Analysis of Need**

Current Jail population exceeds present Jail facility capacities during peak periods. The situation is not expected to improve without additional capacity. Movement of inmates to off-site housing will be utilized to maintain safety and security until increased capacity is available. The need for this expansion is also supported based on inspections conducted by the Wisconsin DOC and through staffing input concluded with the Consultant team, the results of which are recorded in the Consultant's Executive Summary Report dated August 3, 2000. Lower inmate census in 2001, reflecting new programming efforts including changes in the federal prisoner population, provide an indication for the delay for additional beds that had previously been included in Phase II.

#### **Alternatives**

Continue to ship inmates to external facilities and provide support staff to conduct this process.  
Abandon current Jail and courts and construct a new facility off-site.

#### **Ongoing Operating Costs**

At this time, preliminary operating impacts are estimated at \$2.25 million for the first full year based on consultant's estimated population. With operations to begin in mid-2005, estimated operating costs, including one-time expenditures are estimated at \$1.5 million. These estimates include initial phase implementation only. Estimated debt service on borrowed funds for the project is estimated at \$2.4 million per year for first phase.

#### **Previous Action**

Contracted architectural and engineering services were provided in the operating budget to complete an operational review including analysis of jail expansion siting options, building size and occupancies. Approved as a new project in the 2001-05 Capital Plan. Approved with cost updates in 2002-2006 Plan. The Consultant's Schematic Design report was presented to the Board on April 16, 2002. The balance of 2002 design funds was approved May 28, 2002. Approved with cost updates in 2003-2007 plan.

<b>Project #</b>	DOA-200210	<b>Project Title:</b>	Communications Center
<b>Department:</b>	County-wide	<b>Co-Sponsor</b>	Department of Administration
<b>Phase:</b>	Construction	<b>Manager:</b>	Sean Sander
<b>Budget Action:</b>	C-\$ Update	<b>Co-Sponsor</b>	Department of Public Works
		<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003		1 of 2

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2002	2003	2004	Total
Project Phase	Startup/Design	Construct	Implement	Project
Expenditure Budget	\$240,000	\$6,100,000	\$554,000	\$6,894,000
Municipal Revenue	\$0	\$155,469	\$255,468	\$410,937
General Fund Loan-Municipal	\$0	\$1,975,625	\$0	\$1,975,625
Gen. Fund Contributed Cap.	<u>\$240,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$240,000</u>
Net County Tax Levy	\$0	\$3,968,906	\$298,532	\$4,267,438
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>		
<u>Building Costs</u>				
Startup/Design	\$244,000	General Fund Loan -Muni		\$1,975,625
Construction	\$2,800,000	(Repayment over 8 years)		
Furniture	\$100,000	Muni. Revenue (2003-04)		\$310,937
Moving	\$10,000	Muni. Rev Bridge Loan Payment		\$100,000
Building Contingency	<u>\$115,000</u>	General Fund Loan		
<u>Subtotal Building Costs</u>	\$3,269,000	Contributed Capital		\$240,000
		Total Revenue		\$2,626,562
<u>Equipment Costs</u>				
Equipment	\$3,200,000			
Training	\$75,000			
System interfaces	\$250,000			
Project Contingency	<u>\$100,000</u>			
<u>Subtotal Equipment Costs</u>	\$3,625,000			
Total Project Costs	\$6,894,000			
<b>EXPENDITURE BUDGET</b>	\$6,894,000	<b>REVENUE BUDGET</b>		\$2,626,562

### **Project Scope & Description**

The Waukesha County Communications Center Project will benefit the citizens of Waukesha County with an overall higher level of service at a lower cost. Consolidation of dispatch operations standardizes service delivery, staffing, supervision and training and provides economies of scale by centralizing staff and eliminates duplication of equipment at multiple sites. The project is planned as a collaborative infrastructure cost sharing with municipalities. Participating communities will provide funding for the County's infrastructure cost as identified in County Board Ordinance 156-138. The County will provide interest free infrastructure financing over an eight-year period to initial charter member municipalities committing by December 31, 2002. This project includes; hiring of an architect to design the WCCC and a consultant to direct the purchase and installation of equipment needed to operate the center including computer aided dispatch system and development of a network to interface activity data with user/owning communities. Also included is an integrated Records Management system, Land Records/Geographic Interface System (GIS) interface (new in 2004) and a VHF simulcast fire dispatch paging system.

<b>Project #</b>	DOA-200210	<b>Project Title:</b>	Communications Center
<b>Department:</b>	County-wide	<b>Co-Sponsor</b>	Department of Administration
<b>Phase:</b>	Construction	<b>Manager:</b>	Sean Sander
<b>Budget Action:</b>	C-\$ Update	<b>Co-Sponsor</b>	Department of Public Works
		<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003		2 of 2

Bridge Financing is for participating municipalities without budgeted dollars in 2003 and will be repaid to the County in January 2004. This financing provides funding for municipalities to purchase discounted software/training from the vendor during the discount period in 2003.

#### **Location**

The location of the approximate 12,000 sf. Communications Center will be on the campus of the Department of Public Works Highway Operations /Central Fleet facility.

#### **Analysis of Need**

The Waukesha County Cooperation Council retained a consultant to examine alternatives and determine the feasibility and potential cost savings of a consolidated shared dispatch operation. The consultant found citizens of Waukesha County are spending in excess of \$5 million in direct costs for E9-1-1 and public safety dispatch services with the existing PSAP/Dispatch Centers. Citizens are receiving disparate levels of service, in some cases, centers are understaffed, and in others police services are dispatched from one center and fire/ambulance services from another. There is currently little coordination among centers and staffing policies, training and supervision vary greatly. With a consolidated center fewer personnel would be required. Staffing, supervision and training would be standardized and staff would be more proficient. Coordination of multi-jurisdictional incidents would be facilitated. The continued growth and need for Emergency Medical Dispatch (EMD) will be met and addressed uniformly. Access to enhanced features and technology, which is currently fiscally improbable, becomes affordable in an unified consolidated operation.

#### **Alternatives**

Continue to operate countywide with 10 decentralized public safety answering points (PSAPs), which is more costly, less efficient and results in duplication.

#### **Ongoing Operating Costs**

At such time as all communities participate, it is estimated that the total annual operating cost for a consolidated operation will be \$3,600,000 (excluding infrastructure) versus the current estimated direct cost of \$5,850,000 as based on the consultant's comparative cost analysis.

#### **Previous Actions**

Feasibility study in 1998. Financial plan in 2000. Approved with change of scope and cost update in 2003-2007 plan.

#### **Project Phasing**

**2002 Startup/Design** includes consulting, legal, and architectural costs associated with the planning, siting, design, and implementation of the new entity and its operation.

**2003/2004 Construction/Implement** includes construction of the new facility after initial deadline has passed for municipal resolutions and promissory notes from all participating municipalities. Installation of dispatch center equipment including CAD system, dispatch consoles, E911 equipment, logging recordings and office furniture and development of network interface data with user/owning communities records management systems. Upon system testing and acceptance and training of staff a start date of second quarter 2004 is desired.

Conditions for Opening Communications Center per County Executive memo dated Sept 10, 2002

1. The Records Management System (RMS) is populated with conversion data from existing Sheriff Department records and local police management capability is available. This specifically includes:
  - a. The wide area network is in place with RMS and CAD
  - b. Locals will have available to them the software agent allowing that agent to use the County RMS as their records management system.
2. The Computer Aided Dispatch (CAD) is operational
3. The staff is trained.

The Dispatch Operations Committee will determine satisfaction of these conditions.

<b>Project #</b>	HWY-9706	<b>Project Title:</b>	CTH L, CTH O – East County Line
<b>Department:</b>	Public Works- Highway	<b>Road Name:</b>	Janesville Road
<b>Phase:</b>	Construction	<b>Project Type:</b>	Priority Corridor
<b>Budget Action:</b>	As Planned	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003		

<b>CAPITAL BUDGET SUMMARY</b>						
Year	2000	2001	2002	2003	2004	Total
Project Phase	Design	Land Acq.	Land Acq.	Construction	Construction	Project
Expenditure Budget	\$621,000	\$3,600,000	\$1,700,000	\$300,000	\$5,100,000	\$11,321,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$621,000	\$3,600,000	\$1,700,000	\$300,000	\$5,100,000	\$11,321,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>		
Design	\$621,000					
Land Acquisition	\$4,820,000					
Construction	\$4,945,000					
Construction Management	\$685,000					
Contingency	\$250,000					
Total Project Cost*	\$11,321,000					\$0
<b>EXPENDITURE BUDGET</b>	\$11,321,000					<b>REVENUE BUDGET</b>
						\$0

\*Linked to Project 200011 for an additional \$23.0 million

### **Project Scope & Description**

This project involves the reconstruction of 2.3 miles of CTH L to a multi-lane section. The use of a median outside of the Tess Corners area and a two way left turn lane in the Tess Corners area will provide for left turn movements for this project. The roadway alignment will stay at its present location. Land will be acquired up to a distance of 60 feet from the roadway centerline; additional grading easements may be required. The project includes up to 7 potential business and 3 potential residential relocations. The intersection of Janesville Road and Moorland Road is being constructed in 2002 through a joint agreement with the City, County and a Developer.

### **Location**

City of Muskego

### **Analysis of Need**

CTH L or Janesville Road has been identified as a priority corridor for widening to 4 lanes by the Waukesha County Department of Public Works. This portion of CTH L is also shown as a 4-lane roadway in the SEWRPC Jurisdictional Highway Plan for the year 2010 for Waukesha County. Traffic volumes recorded in 2001 along this portion of CTH L are approximately 16,800 vehicles per day. These volumes indicate that the existing two-lane roadway is beyond its operating capacity which is 13,000 vehicles per day, and is therefore in need of widening.

### **Alternatives**

1. Do nothing. This alternate does not address the identified deficiencies.
2. Reconstruct CTH L as described above.

### **Ongoing Operating Costs**

Operating costs are expected to increase by approximately \$23,000 per annum for the additional lane miles.

### **Previous Action**

Project Approved in 1998-2002 Capital Plan with un-named revenue of \$6,400,000.

Project Approved in 1999-2003 with Construction Year to be determined. Approved as planned in the 2000-2004 Capital Plan. Approved as planned in 2001-2005 Capital Plan. Approved with cost adjustments in the 2002-2006 Plan. Approved with cost updates 2003 - 2007 Plan.

<b>Project #</b>	HWY-9815	<b>Project Title:</b>	CTH P, Road T- Road P
<b>Department:</b>	Public Works - Highway	<b>Road Name:</b>	Wisconsin Avenue
<b>Phase:</b>	ROW Acquisition	<b>Project Type:</b>	Rehabilitation/Jurisdictional Transfer
<b>Budget Action:</b>	As Planned	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003, 2:49 PM		

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2001	2003	2004	Total
Project Phase	Design	Land Acquis.	Construction	Project
Expenditure Budget	\$200,000	\$194,000	\$2,091,000	\$2,485,000
Revenue Budget	\$200,000	\$0	\$0	\$200,000
Net County Cost	\$0	\$194,000	\$2,091,000	\$2,285,000
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>	
Design	\$200,000		Jurisdictional Transfer	
Land Acquisition	\$194,000		Reserves	\$200,000
Construction	\$1,765,000			
Construction Management	\$255,000			
Contingency	\$71,000			
Total Project Cost	\$2,485,000		Total Revenue	\$200,000
<b>EXPENDITURE BUDGET</b>	\$2,485,000		<b>REVENUE BUDGET</b>	\$200,000

### **Project Scope & Description**

This project involves the rehabilitation of approximately 0.75 miles of CTH P. The pavement will be improved, drainage improved, ditches and shoulders widened, intersections and curb and gutter provided where needed. Additional right of way acquisition is not anticipated, however, grading and drainage easements will be purchased as needed. The County has negotiated a jurisdictional transfer of the road to the Town of Oconomowoc and which is in effect.

### **Location**

Town of Oconomowoc

### **Analysis of Need**

The pavement along this portion of CTH P has deteriorated to the point that it requires significant treatment in order to improve rideability and reduce maintenance costs. The roadway has poor drainage and is lacking adequate ditches and curbs in many areas. The 1998 traffic volumes along CTH P were 5,400 vehicles per day. The APWA paver rating for this roadway is 28. When this rating drops below 40 a major rehabilitation is recommended.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies.
2. Reconstruct CTH P. This alternative far exceeds the needs of the roadway. Project costs would be doubled by this alternative.
3. Rehabilitate CTH P. This is the recommended alternative.

### **Ongoing Operating Costs**

Initial maintenance costs would be reduced.

### **Previous Action**

Approved in 1998 - 2002 Capital Plan. Approved as planned in the 1999-2003 Capital Plan. Approved as planned in the 2000-2004 Capital Plan. Approved with cost update and accelerated in the 2001-2005 Plan. Approved with cost update in the 2002-2006 Capital Plan. Approved as planned in 2003 – 2007 Plan.

<b>Project #</b>	HWY-9901	<b>Project Title:</b>	CTH J, Rockwood Drive – STH 190
<b>Department:</b>	Public Works - Highways	<b>Road Name:</b>	Pewaukee Road
<b>Phase:</b>	Construction	<b>Project Type:</b>	Jurisdictional Transfer
<b>Budget Action:</b>	C - \$ Update	<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003,2:49 PM		

<b>CAPITAL BUDGET SUMMARY</b>						
Year	2000	2001	2002	2003	2004	Total
Project Phase	Design	Design	Design/Acq.	Construction	Construction	Project
Expenditure Budget	\$736,000	\$0	\$2,418,000	\$1,254,000	\$1,065,000	\$5,473,000
Revenue Budget	\$0	\$0	\$0	\$404,000	\$0	\$404,000
Net County Cost	\$736,000	\$0	\$2,418,000	\$850,000	\$1,065,000	\$5,069,000
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>			
Preliminary Design	\$400,000		STP-Urban ( Const.)			\$7,137,000
Final Design	\$589,000		STP-Urban (80% Fed. Land Acq.)*			\$2,160,000
Land Acquisition	\$2,700,000		(* -Will be applied for on a reimbursement basis)			
Construction	\$7,690,000		(*Note of this amount, \$ 208,000 appropriated)			
Construction Management	\$923,000		City Pewaukee (100% of path design, re-staking)			\$79,000
Contingency	\$308,000		City Pewaukee (20% of path const/eng)			\$75,000
			City Pewaukee (20% of path land acq.)			\$42,000
Total Project Cost	\$12,610,000		Total Revenue			\$9,493,000
<b>EXPENDITURE BUDGET</b>	\$5,473,000		<b>REVENUE BUDGET</b>			\$404,000

#### **Project Scope & Description**

This 2.0 mile long project involves the reconstruction of CTH J to a multi-lane section. The project typical section will consist of a raised grass median, two driving lanes in each direction, and an outer auxiliary lane. A shared-use path will be constructed along one side of CTH "J" at the request of the City of Pewaukee. Both CTH J and CTH M are designated as bike routes on the county adopted regional bicycle plan. Traffic signals are proposed at the intersection of CTH M, Green Road, Avondale Boulevard, and South Riverwood Drive. The roadway alignment may be moved slightly to reduce impacts on adjacent properties. Additional lands will be purchased to a minimum distance of 60 feet from the roadway centerline. The CTH J and CTH M intersection will be improved to meet current and future traffic demands. The existing grade separation over the Canadian Pacific Railroad will remain. The existing bridge will serve as the southbound roadway. A new bridge will be constructed to the east to accommodate the northbound roadway. This project includes 5 residential relocations. A Jurisdictional Transfer Agreement calling for CTH J to become a part of STH 164 has been signed and the transfer will take place upon completion of the project. Construction will be funded with 80% Federal funds and 20% County funds. Waukesha County will receive Federal reimbursement for 80% of the project land acquisition costs. The City of Pewaukee will fund the local share of construction and land acquisition costs due to the addition of the shared-use path. The City of Pewaukee will fund entire re-design costs due to the addition of the shared-use path. Waukesha County will front all land acquisition costs as well as the shared-use path construction and design costs.

#### **Location**

City of Pewaukee

#### **Analysis of Need**

The SERWPC Jurisdictional plan for Waukesha County calls for CTH J to become a State Trunk Highway from I94 to the North County Line. During negotiations with the Wisconsin D.O.T. for the transfer of CTH J to WisDOT jurisdiction it was agreed that Waukesha County would construct the portion of CTH J between Rockwood Drive and Capital Drive (STH 190). The SERWPC jurisdictional plan for 2020 calls for CTH J to be widened to a 4-lane highway. Traffic volumes of nearly 17,000 vehicles per day taken in 2003 indicate that 4 lane warrants have already been met, since they exceed the 13,000 vehicles per day threshold which triggers a four lane facility.

#### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies.
2. Reconstruct CTH J as described above.

#### **Ongoing Operating Costs**

Operating costs are expected to increase by approximately \$20,000 per annum for the additional lane miles. However, these costs will be paid by WisDOT after the jurisdictional transfer.

#### **Previous Action**

Approved in past capital plans as two separate projects, but was removed due to uncertainties during Jurisdictional Transfer negotiations. County Board approved the transfer agreement. Approved as new project in 1999-2003 Capital Plan. Approved as planned in 2000-2004 Plan. Approved as planned in 2001-2005 Plan. Approved with Cost updates in 2002-2006 Plan. Delayed 1 year in 2003-2007 plan.

<b>Project #</b>	HWY-9903	<b>Project Title:</b>	CTH Y, I-43 – CTH I
<b>Department:</b>	Public Works- Highway	<b>Road Name:</b>	Racine Avenue
<b>Phase:</b>	Design	<b>Project Type:</b>	Priority Corridor
<b>Budget Action:</b>	C-\$ Update	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003,2:50 PM		

<b>CAPITAL BUDGET SUMMARY</b>						
Year	2004	2005	2006	2007	2008	Total
Project Phase	Design	Land Acq.	Land Acq.	land/Const	Construction	Project
Expenditure Budget	\$595,000	\$1,000,000	\$1,800,000	\$4,800,000	\$4,844,000	\$13,039,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$595,000	\$1,000,000	\$1,800,000	\$4,800,000	\$4,844,000	\$13,039,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>		
Design		\$595,000				
Land Acquisition		\$2,900,000				
Construction		\$8,369,000				
Construction Management		\$845,000				
Contingency		\$330,000				
<b>Total Project Cost</b>		\$13,039,000				\$0
<b>EXPENDITURE BUDGET</b>		\$13,039,000				\$0
				<b>Total Revenue</b>		\$0
				<b>REVENUE BUDGET</b>		\$0

### **Project Scope & Description**

This project involves the reconstruction of 1.3 miles of CTH Y to a multi-lane section. The use of a median or a two way left turn lane to provide for left turn movements will be evaluated during the design phase of this project. The roadway alignment will stay at its present location. Land will be acquired to a distance of 60 feet from the roadway centerline north of CTH ES and 55 feet from the roadway centerline South of CTH ES. There may be up to 10 potential business and residential relocations. This project will incorporate a grade separation and connecting ramp for the CTH ES & Y intersection as recommended by project 9714. The limits of the south end of the project have been limited to the 4-lane section at I-43.

### **Location**

City of New Berlin

### **Analysis of Need**

CTH Y or Racine Avenue has been identified as a priority need for widening to 4 lanes by the Waukesha County Department of Public Works. This portion of CTH Y is also shown as a 4-lane roadway in the SEWRPC Jurisdictional Highway Plan for the year 2020 for Waukesha County. Traffic volumes recorded in 2003 along this portion of CTH Y are approximately 14,000 vehicles per day. The volumes indicate that the existing two-lane roadway is beyond its operating capacity of 13,000 vehicles per day, and is therefore in need of widening.

### **Alternatives**

1. Do nothing. This alternate does not address the identified deficiencies.
2. Reconstruct CTH Y as described above.

### **Ongoing Operating Costs**

Operating costs are expected to increase by approximately \$48,000 per annum for the additional lane miles.

### **Previous Action**

Approved as new project in 1999-2003 Capital Plan. Approved as planned in the 2000-2004 Capital Plan. Approved with cost update in the 2001-2005 Plan. Approved as planned in the 2002-2006 Plan. Approved with change in scope in 2003 – 2007 Plan.

<b>Project #</b>	HWY-200008	<b>Project Title:</b>	CTH E, Oconomowoc River Bridge & App
<b>Department:</b>	Public Works - Highways	<b>Road Name:</b>	
<b>Phase:</b>	C-\$ Update	<b>Project Type:</b>	Bridge
<b>Date:</b>	December 22, 2003	<b>Manager:</b>	Richard A. Bolte, Director

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2000	2001	2004	Total
Project Phase	Design	Land Acq. & Construction	Construction	Project
Expenditure Budget	\$82,000	\$406,000	\$96,000	\$584,000
Revenue Budget	\$0	\$0	\$75,000	\$75,000
Net County Cost	\$82,000	\$406,000	\$21,000	\$509,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>		
Design	\$150,000	North Lake		\$75,000
Land Acquisition	\$21,000	Management District		
Construction	\$356,000			
Construction Management	\$43,000			
Contingency	\$14,000			
<b>Total Project Cost</b>	<b>\$584,000</b>	<b>Total Revenue</b>		<b>\$75,000</b>
<b>EXPENDITURE BUDGET</b>	<b>\$584,000</b>	<b>REVENUE BUDGET</b>		<b>\$75,000</b>

### **Project Scope & Description**

The project objective is to eliminate a weight restricted bridge on CTH "E" in the Town of Merton. Various alternatives were considered, including: 1. replacing the bridges on new alignment, 2. replacing the bridges and dam spillway structures on existing alignment, 3. replacing a bridge and removal of the dam, and 4. rerouting CTH "E". The selected alternative is to construct a box culvert on existing roadway alignment and construct a new dam spillway. Reconstructed portions of roadway will meet current standards for pavement and shoulder width. This project will require land acquisition. The North Lake Management District (NLMD) has agreed to purchase dam ownership, operating, and maintenance rights from the current private dam owner. NLMD will fund the reconstruction of the dam spillway and will reimburse Waukesha County for these costs following construction. This project will require project agreements with the NLMD and/or the Town of Merton to address items such as cost sharing, dam ownership, long term maintenance, etc.

### **Location**

Town of Merton

### **Analysis of Need**

The existing structure is a 15.4-foot span steel deck girder and an 8-foot span, 7-foot deep raceway of unknown construction. The CTH E roadway and the bridges combine to form a dam, retaining Monches Mill Pond. The dam, spillways, and bridges are privately owned and maintained. Waukesha County inspects the bridges. The deck girder is in poor condition and is posted with a 6-ton load limit. The spillway floor is undermined and a scour hole exists just downstream of the structure. Structure replacement is warranted.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies.
2. Reconstruct the existing bridge and roadway approaches to current WisDOT standards.

### **Ongoing Operating Costs**

Initial maintenance costs will be reduced.

### **Previous Action**

Approved as a new project in the 2000-2004 Plan. Approved as planned in the 2001-2005 Plan. Approved as planned in the 2001-2005 Plan.

<b>Project #</b>	HWY-200104	<b>Project Title:</b>	CTH O, CTH I to STH 59
<b>Department:</b>	Public Works – Highways	<b>Road Name:</b>	Moorland Road
<b>Phase:</b>	Design	<b>Project Type:</b>	Rehabilitation
<b>Budget Action:</b>	\$ Update; delay to 2006	<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003, 2:51 PM		

<b>CAPITAL BUDGET SUMMARY</b>					
Year	2004	2005	2006	2007	Total
Project Phase	Design		Construction	Construction	Project
Expenditure Budget	\$400,000	\$0	\$4,215,000	\$1,100,000	\$5,715,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$400,000	\$0	\$4,215,000	\$1,100,000	\$5,715,000
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>		
Design	\$400,000				
Land Acquisition	\$0				
Construction	\$4,750,000				
Construction Management	\$355,000				
Contingency	\$210,000				
Total Project Cost	\$5,715,000		Total Revenue		\$0
<b>EXPENDITURE BUDGET</b>	\$5,715,000		<b>REVENUE BUDGET</b>		\$0

### **Project Scope & Description**

Rehabilitate 4.35 miles of concrete pavement and asphalt/concrete roadway on CTH "O" from CTH "I" to STH 59 and 0.44 miles of concrete roadway on CTH "ES" just east and west of CTH "O". Rehabilitate or reconstruct 0.25 miles of asphalt pavement between STH 59 and Pinehurst Drive. With this project a third driving lane will be opened to traffic between CTH "D" and STH 59. Various rehabilitation techniques will be investigated, including dowel bar retrofit, slab replacement, diamond grinding, concrete white-topping, asphaltic concrete overlay, etc. Traffic signals will be updated or improved from CTH "D" to STH 59 to accommodate the additional driving lanes. The existing storm sewer system will be inspected during design to determine overall condition. Acquisition of right of way to the adopted ultimate width of 130 feet is not planned as part of this project.

### **Location**

City of New Berlin, City of Brookfield

### **Analysis of Need**

The existing concrete pavement was rehabilitated in the early to mid-1990's using diamond grinding. The roadway exhibits cracked and broken slabs, joint faulting, and slab curl again resulting in a fair to poor ride. The pavement condition index ranges from 23 to 68 on this roadway. The average daily traffic (ADT) ranges from 28,000 at the south end of the proposed project to 35,000 near the north end.

### **Alternatives**

1. Do Nothing. This alternate does not address the identified deficiencies.
2. Rehabilitate the existing roadway.

### **Ongoing Operating Costs**

Operating costs are expected to increase by approximately \$15,000 per annum for the additional lane miles.

### **Previous Action**

Approved as a new project in the 2001-2005 Capital Plan. Approved as planned in the 2002-2006 Plan. Approved as planned in the 2003-2007 Plan.

<b>Project #</b>	HWY-200421	<b>Project Title:</b>	CTH TT, Northview Road Intersection & Signals
<b>Department:</b>	Public Works- Highways	<b>Road Name:</b>	Meadowbrook Road
<b>Phase:</b>	1-Yr Project	<b>Project Type:</b>	Spot Safety Improvement
<b>Budget Action:</b>	New	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003		

<b>CAPITAL BUDGET SUMMARY</b>			
<b>Year</b>	2004		<b>Total</b>
<b>Project Phase</b>	Design/Construction		<b>Project</b>
Expenditure Budget	\$400,000		\$400,000
Revenue Budget	\$400,000		\$400,000
Net County Cost	\$0		\$0
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Design	In House		
Land Acquisition	\$29,000		
Construction	\$325,000		
Construction Management	\$32,000		
Contingency	\$14,000	Developer Funds	\$400,000
<b>Total Project Cost</b>	\$400,000	<b>Total Revenue</b>	\$400,000
<b>EXPENDITURE BUDGET</b>	\$400,000	<b>REVENUE BUDGET</b>	\$400,000

### **Project Scope & Description**

This project involves the reconstruction of the intersection of CTH TT (Meadowbrook Road) and Northview Road. The roadways on both CTH TT and Northview Road will be improved to provide adequate through lanes and turn lanes. A fully actuated traffic signal will be constructed to improve safety and reduce intersection delay. This project will be funded through an agreement with the developer of the adjacent properties.

### **Location**

City of Pewaukee, City of Waukesha

### **Analysis of Need**

This intersection has approximately 13,000 vehicles entering each day. In 1998 this intersection met 2 of the warrants for traffic signals. The accident rate is 0.3 per million vehicles entering the intersection. Traffic is expected to increase significantly with development of adjacent lands.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies and safety concerns at the intersection.
2. Reconstruct the intersection and add traffic signals.

### **Ongoing Operating Costs**

Approximately \$5,000 per annum for the traffic signals

### **Previous Action**

Proposed as new project in 2004-2008 plan.

<b>Project #</b>	HWY-200422	<b>Project Title:</b>	CTH C, Main St. – Bark River Bridge
<b>Department:</b>	Transportation	<b>Road Name:</b>	Genesee Street
<b>Phase:</b>	Construction	<b>Project Type:</b>	Rehabilitation/Jurisdictional Transfer
<b>Budget Action:</b>	New		
<b>Date:</b>	December 22, 2003	<b>Manager:</b>	Richard A. Bolte, Dir.

<b>CAPITAL BUDGET SUMMARY</b>			
<b>Year</b>	<b>2003</b>	<b>2004</b>	<b>Total</b>
<b>Project Phase</b>	<b>Design</b>	<b>Construction</b>	<b>Project</b>
Expenditure Budget	\$0	\$100,000	\$100,000
Revenue Budget	\$0	\$0	\$0
Net County Cost	\$0	\$100,000	\$100,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Design	\$0		
Land Acquisition	\$0		
Construction	\$100,000		
Construction Management	\$0		
Contingency	\$0		
<b>Total Project Cost</b>	<b>\$100,000</b>	<b>Total Revenue</b>	<b>\$0</b>
<b>EXPENDITURE BUDGET</b>	<b>\$100,000</b>	<b>REVENUE BUDGET</b>	<b>\$0</b>

### **Project Scope & Description**

The County negotiated a jurisdictional transfer of this road to the City of Delafield effective January 20, 2003. As part of this agreement, Waukesha County agreed to fund a sum equal to the local share of rebuilding this segment of CTH C, not to exceed \$100,000. This project involves the rebuilding of the roadway to include and improve: curb and gutter, drainage improvements, intersection layout, pavement structure, and landscaping and streetscaping for aesthetics to this downtown area. Additional right of way acquisition is not anticipated, however, grading and drainage easements may be required. Upon completion of the project, CTH C between Main Street and the Mill Race – Bark River bridge will be transferred to the City of Delafield.

### **Location**

City of Delafield

### **Analysis of Need**

The pavement along this portion of CTH C has deteriorated to the point that it requires significant treatment in order to improve rideability and reduce maintenance costs. The Pavement Condition Index (PCI) for this section of roadway is 24. When the PCI rating drops below 40, major rehabilitation is recommended.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies.
2. Reconstruct CTH C. This alternative far exceeds the needs of the roadway. Project costs would increase significantly with this alternative.
3. Rehabilitate CTH C. This is the recommended alternative.

### **Ongoing Operating Costs**

Initial and future costs will be reduced.

### **Previous Action**

Negotiated jurisdictional transfer agreement. Proposed as new project in 2004-2008 plan.

<b>Project #</b>	HWY-9817	<b>Project Title:</b>	Culvert Replacement Program
<b>Department:</b>	Public Works - Highways	<b>Road Name:</b>	Various
<b>Phase:</b>	Program Project	<b>Project Type:</b>	Bridge
<b>Budget Action:</b>	As Planned	<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003,2:52 PM		

<b>CAPITAL BUDGET SUMMARY</b>							
Year	Previous	2004	2005	2006	2007	2008	Total Project
Expenditure Budget	\$600,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,100,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$600,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,100,000
<b>COST DOCUMENTATION</b>					<b>REVENUE</b>		
Previous	\$600,000						
2004 Appropriation	\$100,000						
2005 Appropriation	\$100,000						
2006 Appropriation	\$100,000						
2007 Appropriation	\$100,000						
2008 Appropriation	\$100,000						
Total Project Cost	\$1,100,000						
						Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	\$1,100,000					<b>REVENUE BUDGET</b>	\$0

### **Project Scope & Description**

Provide annual funding for a county-wide culvert replacement program.

### **Location**

Various

### **Analysis of Need**

The Public Works Department replaces a number of culverts every year because of deterioration. This program is designed to address the larger culvert structures that require more extensive design and land acquisition, and have a higher construction cost. Generally the individual cost of the replacements is approximately \$50,000 and therefore they do not warrant a Capital Project, however when grouped together the yearly costs exceed \$100,000. Individual culvert locations are not normally known until the year they are to be replaced. We have averaged two culvert replacements per year under this program.

### **Alternatives**

Schedule individual projects as the needs arise.

### **Ongoing Operating Costs**

The projects do not require any expenditure of the Department's operating budget. Projects are reviewed by the engineering staff.

### **Previous Action**

Project Approved as program project beginning in 1998-2002 Capital Plan. Projects constructed in 2000; Two sites on CTH "CW", one culvert of CTH "CI". Project constructed 2001; one culvert on CTH "JK". Projects constructed 2002; one culvert CTH "D", one culvert CTH "TT". Three culvert sites currently under design; CTH "Z", CTH BB", CTH "U". Approved as planned in the 2001-2005 Plan. Approved with additional years in the 2002-2006 Plan. Approved with additional years in the 2003-2007 Plan.

<b>Project #</b>	HWY-9131	<b>Project Title:</b>	Bridge Aid Program
<b>Department:</b>	Public Works - Highways	<b>Road Name:</b>	
<b>Phase:</b>	Program Project	<b>Project Type:</b>	Bridge
<b>Budget Action:</b>	C - \$ Update	<b>Manager:</b>	Richard A. Bolte, Director
<b>Date:</b>	December 22, 2003,2:53 PM		

<b>CAPITAL BUDGET SUMMARY</b>							
Year	Previous	2004	2005	2006	2007	2008	Total Project
<b>Project Phase</b>							
Expenditure Budget	\$665,000	\$150,000	\$0	\$160,000	\$0	\$170,000	\$1,145,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$665,000	\$150,000	\$0	\$160,000	\$0	\$170,000	\$1,145,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>			
Previous	\$665,000						
2004 Appropriation	\$150,000						
2005 Appropriation	\$0						
2006 Appropriation	\$160,000						
2007 Appropriation	\$0						
2008 Appropriation	\$170,000						
Total Project Cost	\$1,145,000						
<b>EXPENDITURE BUDGET</b>	\$1,145,000						
						<b>Total Revenue</b>	<b>\$0</b>
						<b>REVENUE BUDGET</b>	<b>\$0</b>

### **Project Scope & Description**

The program provides assistance to municipalities for the replacement of large drainage structures. The project normally provides 50% of the funding for engineering, design, and construction of town-, village-, or city-initiated projects that do not receive federal or state aid.

### **Location**

Various

### **Analysis of Need**

Wisconsin Statute 81.38 requires the County to fund half the cost of construction or repair of local bridge and culvert projects initiated by townships. Such projects arise during the course of the budget year and funds are distributed on the basis of requests received. Requests that exceed the remaining funding for one year are carried over to the next year. This funding program has historically been expanded to cover all municipalities.

### **Alternatives**

Participation of the County is required by statutory mandate in townships. The County could choose to withdraw participation on city and village bridges.

### **Ongoing Operating Costs**

The projects do not require any expenditure of the Department's operating budget. Projects are reviewed by the engineering staff.

### **Previous Action**

Approved as on going program project as planned in the 1996-2000 capital plan. Suspended funding in 1997-1999. Approved as planned in subsequent five-year plans. Approved with additional years in the 2001-2005 Plan and 2002-2006 Plan. Approved with additional years in the 2002-2006 Plan. Approved with additional years in the 2003-2007 Plan.

<b>Project #</b>	HWY-9715	<b>Project Title:</b>	Repaving
<b>Department:</b>	Public Works	<b>Road Name:</b>	
<b>Phase:</b>	Program Project	<b>Project Type:</b>	Repaving
<b>Budget Action:</b>	As Planned	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003,2:53 PM		

<b>CAPITAL BUDGET SUMMARY</b>							
Year	2002	2003	2004	2005	2006	2007	2008
<b>Project Phase</b>							
Expenditure Budget	\$1,990,000	\$2,040,000	\$2,090,000	\$2,140,000	\$2,190,000	\$2,240,000	\$2,240,000
Revenue Budget	\$650,000	\$750,000	\$750,000	\$400,000	\$400,000	\$400,000	\$400,000
Net County Cost	\$1,340,000	\$1,290,000	\$1,340,000	\$1,740,000	\$1,790,000	\$1,840,000	\$1,840,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>			
			Hwy Paving				
			Paver Study UWW Pav. & shouldering			CHIP Rev	Transp Aids
2002	\$20,000	\$50,000	\$1,920,000		2002	\$450,000	\$200,000
2003	\$20,000	\$50,000	\$1,970,000		2003	\$150,000	\$600,000
2004	\$20,000	\$50,000	\$2,020,000		2004	\$0	\$750,000
2005	\$20,000	\$50,000	\$2,070,000		2005	\$0	\$400,000
2006	\$20,000	\$50,000	\$2,120,000		2006	\$0	\$400,000
2007	\$20,000	\$50,000	\$2,170,000		2007	\$0	\$400,000
2008	\$20,000	\$50,000	\$2,170,000		2008	\$0	\$400,000
Total Project Cost	\$140,000	\$350,000	\$14,440,000	Tot. Revenue		\$600,000	\$3,150,000
<b>EXPENDITURE BUDGET</b>			\$14,930,000	<b>REVENUE BUDGET</b>		\$ 3,750,000	

#### **Project Scope & Description**

The project involves the resurfacing of County Trunk Highways to remove distressed areas and provide an improved riding surface. It is the Department's goal to resurface approximately 20 miles of roadway, and to crush, relay and surface approximately 3 miles of roadway on a yearly basis. The project includes the cost of the ongoing Paver Inspection Program which determines the sections of highways to be repaved, the cost of shouldering, and the cost of the paving program at U.W. Waukesha.

#### **Location**

Various

#### **Analysis of Need**

The Department presently maintains about 365 centerline miles of asphalt-surfaced roadways on the County Trunk System and the parking lots at U.W. Waukesha. As asphalt pavements age the surface tends to rut and crack due to vehicle loads and weathering of the asphalt. The Department has initiated a pavement management program which uses the PAVER software system. The average pavement condition index (PCI) of asphalt pavements in 2001 was 74.6. Our goal is to achieve an average PCI rating of 70 with less than 10% under a PCI of 40. Resurfacing projects take into consideration the PCI of the existing pavements and the classification of the road. The PCI ratings will be updated on a rolling three-year schedule.

#### **Alternatives**

1. Do nothing. This alternative will result in a deteriorated system requiring large expenditures of funds to reconstruct the deteriorated sections.
2. Spot repairs and patching. The result will be a slight delay in the deterioration of the system, but the eventual result will be the same as "do nothing".
3. Resurface roadways based on pavement conditions determined by the PAVER pavement management system and Department review.

#### **Ongoing Operating Costs**

The cost of maintaining a two-lane roadway in good condition is approximately \$11,000 per mile.

#### **Previous Action**

Approved as planned in the 2001-2005 Plan. Approved as planned in the 2002-2006 Plan. Approved as planned in 2003 – 2007 Plan,

<b>Project #</b>	HWY-200424	<b>Project Title:</b>	CTH T, CTH SS Signals
<b>Department:</b>	Public Works- Highways	<b>Road Name:</b>	
<b>Phase:</b>	1-Year Project	<b>Project Type:</b>	Spot Improvement
<b>Budget Action:</b>	Place Named	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003,2:54 PM		

<b>CAPITAL BUDGET SUMMARY</b>			
<b>Year</b>	<b>2004</b>		<b>Total</b>
<b>Project Phase</b>	<b>Design/Construction</b>		<b>Project</b>
Expenditure Budget	<b>\$259,000</b>		\$259,000
Revenue Budget	<b>\$0</b>		\$0
Net County Cost	<b>\$259,000</b>		\$259,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Design	In House		
Land Acquisition	\$20,000		
Construction	\$230,000		
Construction Management	In House		
Contingency	<u>\$9,000</u>		
Total Project Cost	<b>\$259,000</b>	Total Revenue	<b>\$0</b>
<b>EXPENDITURE BUDGET</b>	<b>\$259,000</b>	<b>REVENUE BUDGET</b>	<b>\$0</b>

### **Project Scope & Description**

This project involves the installation of permanent signals at the intersection of CTH T and CTH SS. The roadways on CTH SS will be improved to provide adequate through lanes and turn lanes. A fully actuated traffic signal that will be interconnected to the existing signal at the CTH T & CTH JJ and the new signal at CTH T and the STH 16 off ramp will be constructed to improve safety and reduce system delay. This is the 2004 selected location from the intersection signalization program project 9817.

### **Location**

City of Pewaukee

### **Analysis of Need**

This intersection has approximately 18,000 vehicles entering each day and the existing temporary signals have been in place for over four years. Also, with the installation of a new signal at the STH 16 off ramps, there will be three signals within 1750 feet which would cause extra delay and confusion.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies at the intersection.
2. Add Traffic Signals at the intersection.

### **Ongoing Operating Costs**

Approximately \$5,000 per annum for the traffic signals.

### **Previous Action**

Uses Intersection Signal Program Funds.

<b>Project #</b>	HWY-200423	<b>Project Title:</b>	CTH K, CTH V Intersection & Signals
<b>Department:</b>	Public Works- Highways	<b>Road Name:</b>	Lisbon Road
<b>Phase:</b>	1-Yr Project	<b>Project Type:</b>	Spot Improvement
<b>Budget Action:</b>	Place Named	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Date:</b>	December 22, 2003		

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004		Total
Project Phase	Design/Construction		Project
Expenditure Budget	\$490,000		\$490,000
Revenue Budget	\$0		\$0
Net County Cost	\$490,000		\$490,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Design	In House		
Land Acquisition	\$36,000		
Construction	\$400,000		
Construction Management	\$35,000		
Contingency	<u>\$19,000</u>		
Total Project Cost	\$490,000	Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	\$490,000	<b>REVENUE BUDGET</b>	\$0

### **Project Scope & Description**

This project involves the reconstruction of the intersection of CTH K and CTH V. The roadways on both CTH K and CTH V will be improved to provide adequate through lanes and turn lanes. A fully actuated traffic signal will be constructed to improve safety and reduce intersection delay. This is the 2004 selected location from the spot safety improvement program project 200203.

### **Location**

Town of Lisbon, Village of Menomonee Falls

### **Analysis of Need**

This intersection has approximately 16,000 vehicles entering each day and meets more warrants for the installation of signals than any other location in Waukesha County. This intersection also, has the highest ranking of accident severity in the County with one fatality and over 12 injury accidents during the past four years.

### **Alternatives**

1. Do nothing. This alternative does not address the identified deficiencies at the intersection.
2. Reconstruct the intersection and add traffic signals.

### **Ongoing Operating Costs**

Approximately \$5,000 per annum for the traffic signals

### **Previous Action**

Utilizes Spot Safety Improvement Program Funds.

<b>Project #</b>	PP-9703	<b>Project Title:</b>	Pavement Management Plan
<b>Department:</b>	Parks & Land Use	<b>Manager:</b>	Dale Shaver, Parks & Land Use Director
<b>Phase:</b>	Program Project		
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:55 PM

<b>CAPITAL BUDGET SUMMARY</b>								
Year	1997-2003	2004	2005	2006	2007	2008	2009	Total
Program Project								Project
Expenditure Budget	\$1,890,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$4,290,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$1,890,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$4,290,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>				
1997-2003	\$1,890,000							
2003	\$400,000							
2004	\$400,000							
2005	\$400,000							
2006	\$400,000							
2007	\$400,000							
2008	\$400,000							
Total Project Cost	\$4,290,000							
							Total Revenue	\$0
							<b>REVENUE BUDGET</b>	\$0
<b>EXPENDITURE BUDGET '04</b>	\$400,000							

### **Project Scope & Description**

The plan identifies Capital and Operational Projects over a 15 years (1997-2012) to be accomplished in order to bring the pavement up to industry standards. The projects consist of soil borings, pavement pulverization, stabilization fabric, culverts, stone base and asphalt pavement construction.

### **Location**

Various locations determined by pavement conditions.

### **Analysis of Need**

The Pavement Management Plan identifies pavement conditions based upon the PASER rating system, with a 10 rating as No Maintenance Required, and a 1 rating as Failed. The facility scheduled for road and parking lot reconstruction in 2004 & 2005 is at Mukwonago Park. The pavement conditions are rated low or poor condition for most of the roads and parking lots with pavement failure, extensive alligator cracking, patches and rutting, uneven surface and severe edge distortion.

### **Alternatives**

Spot repair with asphalt base patching and chip and seal road surface has been performed to maintain some function of the roadway. This could be continued on an annual basis, but will not achieve the desired surface performance. Reconstruction will be required eventually.

### **Ongoing Operating Costs**

Maintenance of the existing road conditions requires frequent patching and chip and seal applications in order to provide usable conditions. Operating costs within the next 5 years will be minimal with the proposed pavement improvements.

### **Previous Action**

Approved as a new program project in the 1997-2001 Capital Plan, continued in 1998-2002 Plan and 1999-2003 Capital Plan. Approved with a change in scope to include additional pavement in the 2000-2004 plan. Approved as planned in the 2001-2005 Plan, 2002-2006 Plan, and 2002-2007 Plan.

<b>Project #</b>	200305	<b>Project Title:</b>	Computerized Maintenance Management System
<b>Department:</b>	Public Works	<b>Sponsor:</b>	Public Works – Building Operations
<b>Phase:</b>	Design/Specifications	<b>Manager:</b>	Richard A. Bolte, Dir.
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 23, 2003, 10:31 AM

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2003	2004	2005	Total
Project Phase	Implementation	Implementation	Implementation	Project
Expenditure Budget	\$70,000	\$55,000	\$40,000	\$165,000
Revenue Budget	\$0	\$0	\$0	\$0
Net County Cost	\$70,000	\$55,000	\$40,000	\$165,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>		
Total Implementation	\$158,000			
Contingency	\$7,000			
Total Project Cost	\$165,000	Total Revenue		\$0
<b>EXPENDITURE BUDGET</b>	\$165,000	<b>REVENUE BUDGET</b>		\$0

### **Project Scope & Description**

To purchase and implement a Computerized Maintenance Management System to improve the ability to monitor and analyze the maintenance needs of all county facilities including Parks and Transportation. To provide a manageable means of scheduling, performing and reporting preventative and predictive maintenance along with asset tracking and the ability to make intelligent decisions regarding equipment replacement through the evaluation of maintenance cost data. The first phase will include modules for Maintenance Management, Project Management and Space Management. Subsequent phases will include Asset Management, an Executive Information module and bar coding tools.

### **Location**

Waukesha County Courthouse- Building Operations Department serving the entire County including Parks and Transportation facilities.

### **Analysis of Need**

Waukesha County Audit Division performed an audit on the current maintenance work order request system utilized in the Building Operations Division. This audit recommended the purchase of a CMMS package to improve the process of scheduling and monitoring preventative and predictive maintenance, to provide a method for tracking maintenance costs, managing facilities assets, and formalizing the equipment replacement decision process. The software package will also be capable of generating online work orders to reduce labor costs over the current paper work order system.

### **Alternatives**

Continue using paper method of maintaining control of countywide work orders and preventive maintenance throughout the county facilities.

### **Ongoing Operating Costs**

Labor hours with current paper system are high from the administration side and lacking from the mechanical side. Equipment replacement costs could be reduced through better control of maintenance. The initial labor of setting up the CMMS system will be extensive due to data entry, but will eventually result in an efficient method of operation, resulting in lower maintenance costs, extended equipment life through proper preventative maintenance.

### **Previous Action**

During 2003 a RFP has been issued to begin the first phase of the project that includes the selection and implementation of a Computerized Maintenance Management System. Approved as new project in 2003-2007 plan.

<b>Project #</b>	IS-200205	<b>Project Title:</b>	Tax Records Replacement
<b>Department:</b>	Treasurer / Register of Deeds	<b>Sponsor:</b>	Treasurer/Register of Deeds
<b>Phase :</b>	Implementation	<b>Manager:</b>	Mike Biagioli, Information Systems Manager
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:57 PM

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2002	2003	2004	Total
Project Phase	Design	Implementation	Completion	Project
Expenditure Budget	\$25,000	\$575,000	\$125,000	\$725,000
Revenue Budget	\$0	\$0	\$0	\$0
Net County Cost	\$25,000	\$575,000	\$125,000	\$725,000
<b>COST DOCUMENTATION*</b>		<b>REVENUE</b>		
Hardware	\$75,000			
Software	\$575,000			
Consulting Services	\$65,000			
Contingency	\$10,000			
Total Project Cost	\$725,000	Total Revenue		
<b>EXPENDITURE BUDGET</b>	\$725,000	<b>REVENUE BUDGET</b>	\$0	
*Based on current technologies				

### **Project Scope & Description**

The current Tax Records and Listing system is an "in-house" custom developed system converted in 1999 and 2000, from its RPG2 environment that ran on the County IBM ES/9000 mainframe. In order to bring the system into Year 2000 compliance, all modules of the system were re-written to function on a new P/390 "mini-mainframe". The screens were developed in CICS COBOL and the system was converted to execute in the IBM VSE operating system environment.

The intent of this capital project is to replace this custom system with a purchased vendor package that operates on one of the County standard operating environments (UNIX or Windows 2000). This will allow the County to eliminate the only remaining mainframe based system, reducing the County's reliance on third party support of that system.

In its current environment, additional functionality is extremely limited by the fact that contracted programming and system support would be required to modify, enhance or change any code within the system. Converting to a vendor package will give the Register of Deeds department and the Treasurer's department the ability to take advantage of additional functionalities and features of the selected package. One of the requirements of the purchased vendor package will be that the database used to data storage and retrieval, be one of the County standard databases (Oracle or Microsoft's MS/SQL Server). This will allow the data to be retrieved using the County data warehouse tools and the County report writing tools.

These features will allow for information sharing across all county departments as well as make the information more readily and easily accessible to all county residents.

### **Location**

Register of Deeds and Treasurer staff will benefit from these improvements.

### **Analysis of Need**

1. In its current environment, the Tax Records/Listing system is relatively inflexible. Improvements in function would require the contracting of all programming staff to develop, test and implement and changes (since the systems programs were re-written in CICS COBOL). These resources are becoming scarcer. Moving

<b>Project #</b>	IS-200205	<b>Project Title:</b>	Tax Records Replacement
<b>Department:</b>	Treasurer / Register of Deeds	<b>Sponsor:</b>	Treasurer/Register of Deeds
<b>Phase :</b>	Implementation	<b>Manager:</b>	Mike Biagioli, Information Systems Manager
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:57 PM

to a packaged system that is developed for web-enabled processing and current technologies will minimize, if not eliminate, the requirement for modifications.

2. This system is the only system that is currently operating on the County's IBM P/390. Replacing this system with a package that operates on either UNIX or Microsoft's Windows 2000 will eliminate the need for that mainframe and allow the County to move that processor out of the computer room. Reducing the maintenance costs and eliminating the need for third party systems administration.
3. In order to make the Tax Records/Listing data available for public access, in its current data repository state (IBM VSAM file structure). The data must be "exported" to the data warehouse using an interim manual process. Implementing a packaged solution that operates on either of the two County standard relational databases (Oracle or Microsoft's MS/SQL Server) will allow for an automated linkage of the data to the data warehouse. This will make information more readily available and eliminate the manual step that can introduce error to the process.

### **Alternatives**

Alternatives to this project include:

1. Continue using the mainframe-based version of the Tax Records/Listing system. This will require that the County continue to support the P/390 Operating System using third party systems support and administration. Also, this will dramatically reduce the County's ability to provide any requested changes or enhancements to the current system.
2. Re-write the current Tax Records/Listing system in-house using combined internal/external-contracted services. To provide the functionality required by both the Treasurer and the Register of Deeds, the cost estimate is approximately \$750,000 with equipment charges expected to exceed \$100,000. Time to delivery would be 3.5 years.

### **Ongoing Operating Costs**

Ongoing maintenance fees for the package are anticipated to be 20% of the purchase price or \$85,875 in 2004, \$89,800 in 2005 and \$93,790 in 2006.

### **Previous Action**

Approved as new project in 2002-2006 Plan. Approved as planned in 2003-2007 plan.

---

<b>Project #</b>	IS-9819	<b>Project Title:</b>	Justice System Redevelopment
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	Courts, Sheriff, District Attorney
<b>Phase :</b>	Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	C- \$ Update	<b>Date:</b>	December 22, 2003

<b>CAPITAL BUDGET SUMMARY</b>						
Year	1999	2000	2001	2002	2004	Total
Project Phase	Design CCAP Conversions and Implement Victim Witness	Implement CCAP and Design Police Mgmt	Implement Police Mgmt and DA systems Begin to procure Det Mgmt Sys	Implement Redesign of DA Systems Continue Det.Mgmt Sys	Implement Detention Mgmt System	Project
Expenditure Budget	\$423,000	\$448,000	\$445,000	\$370,000	\$70,570	\$1,756,570
Revenue Budget	\$0	\$0	\$175,000	\$100,000	\$0	\$275,000
Net County Cost	\$423,000	\$448,000	\$270,000	\$270,000	\$70,570	\$1,481,570
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>		
Consulting and Contract Staff	\$970,570			Jail Assessment Revenue (Detention System)		\$175,000
Hardware	\$186,000			CCAP Conversion		\$100,000
Software	\$600,000			Total Revenue		\$275,000
Total Project Cost	\$1,756,570			<b>REVENUE BUDGET</b>		\$275,000
<b>EXPENDITURE BUDGET</b>	\$1,756,570					

### **Project Scope & Description**

The Justice System Development project seeks to upgrade all aspects of the existing Integrated Justice Information System (IJIS). The project will implement packaged solutions, where possible, and also integrate State provided justice systems components that replace IJIS functionality at the state level (CCAP and DA/Protect). This will move the county off of proprietary hardware/software solutions that have been developed using the Universe/Blacksmith environment. The budget was amended to reflect a lower cost estimate for the development of the required modifications to the DA/PROTECT case management system the original request was for \$100,000 in 2004, that amended amount is \$70,570.

### **Project Update**

To date this Capital Plan has completed the development of an automated Victim/witness program for the District Attorney, migrated the IJIS applications supporting Courts to the State provided CCAP system, implemented the DA/LAN phase of the state DA Protect system, developed a data repository for Jail / Inmate related data used by the Jail Collaboration Committee, upgraded the data infrastructure used by the Justice Systems.

#### **Expenditure To Date Summary:**

Victim Witness System Development	\$285,000
Software Licenses	\$75,000
Hardware Upgrades (Victim Witness / DA/LAN)	\$25,000
CCAP Conversion including Hardware	\$194,000
Sheriff System Development (including Hardware)	\$232,000
Jail Collaboration Data Repository	\$65,000

### **Location**

Four county departments – Clerk of Courts, Sheriff, District Attorney and Juvenile Court, use IJIS

### **Analysis of Need**

IJIS represents substantial analysis and development effort and offers a comprehensive, customized data system for departments, which use it. The IJIS system dates back to the mid-1980s, and the underlying technology of the Universe database, Blacksmith front-end, and WordMarc word processing. Maintaining these systems, with this technology is difficult. Other than our in-house development staff, knowledge of Universe/Blacksmith is virtually non-existent. The licensing is costly, and system divergence requires multiple operating systems to be supported by Systems Technology. With the introduction of statewide justice systems, migration to those systems and the implementation of packaged solutions for Jail Management and Police Law Records Management will eliminate the need for supporting these aging technologies and move the county off of internal development support requirements.

### **Alternatives**

Alternative to this project is to continue using the current IJIS systems and its associated risks in the event of losing internal resources knowledgeable of the system.

#### **Ongoing Operating Costs**

This project will increase the operating cost for the Sheriff's Department (Jail Management and Police Law Records Management packages purchased from Spillman) by \$72,000 per year starting in 2005

**Previous Action** Approved as a new project in 1999-2003 Capital Plan.

<b>Project #</b>	200201	<b>Project Title:</b>	Mobile Data Infrastructure Upgrade
<b>Department:</b>	DOA-Radio Services Div.	<b>Manager:</b>	Keith Swartz, DOA; Chris Petterson, Radio Services
<b>Phase:</b>	Formation	<b>Sponsors:</b>	DOA-Radio Services, Sheriff
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:58 PM

<b>CAPITAL BUDGET SUMMARY</b>					
Year	2003	2004	2005	2006	Total
Project Phase	Initial Plan	Plan/design	Implement		Project
Expenditure Budget	\$0	\$45,000	\$605,000	\$0	\$650,000
Revenue Budget	\$0	\$45,000	\$605,000	\$0	\$650,000
Net County Cost	\$0	\$0	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>			
Professional Services- Consultant	\$45,000	Radio Services Fund Balance			
Equipment-Hardware/Software	\$605,000	<i>(or grant funds if available)</i>			\$650,000
Total Project Cost	\$650,000	Total Revenue			\$650,000
<b>EXPENDITURE BUDGET</b>	\$650,000	<b>REVENUE BUDGET</b>			\$650,000

### **Project Scope & Description**

This project represents the planned future replacement and upgrade of the existing Countywide Public Safety Mobile Data System (MDT) infrastructure, placed in service in August 1989. The current system used by most municipal law enforcement agencies and the County Sheriffs department provides the ability to make basic queries to the Wisconsin Crime Information Bureau (CIB) for drivers' license, vehicle registration, criminal history, and wanted checks, as well as intra- and interdepartmental administrative messaging. The upgrade project is intended to provide a new and more reliable system retaining existing features, while increasing the data throughput, improving the systems functionality with additional new capabilities to provide a more flexible and versatile system which may allow for future growth as needed.

### **Location**

The infrastructure hardware as planned will be located at the Radio Services facility, serving mobile units throughout Waukesha County.

### **Analysis of Need**

According to system customers the existing system has demonstrated over the last eleven years the ability to help avoid additional dispatch personnel costs, improve law enforcement offices productivity, allow faster, more accurate and easier access to criminal and traffic databases from state and federal sources. The existing system is reaching the end of it's normal functional life expectancy and has exceeded it technological useful life. System customers are inquiring about the systems capability to interface with their Computer Aided Dispatch (CAD) systems, providing law enforcement officers the ability to query their in-house computer systems and databases for additional information functionality. The current system cannot provide this functionality for multiple system users as a practical matter. An upgraded system will also be more efficient by greatly expanding data throughput, and reduce response time.

### **Alternatives**

Retain existing system, which will have out lived it's functional and technological life expectancy and require major system hardware and software upgrades costs just to keep it basically functional.  
Discontinue mobile data services and revert to voice-only based information distribution.

<b>Project #</b>	200201	<b>Project Title:</b>	Mobile Data Infrastructure Upgrade
<b>Department:</b>	DOA-Radio Services Div.	<b>Manager:</b>	Keith Swartz, DOA; Chris Petterson, Radio Services
<b>Phase:</b>	Formation	<b>Sponsors:</b>	DOA-Radio Services, Sheriff
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:58 PM

### **Ongoing Operating Costs**

Capital costs funding with Radio Services fund balance will need to be recouped over a 7 to 10 year useful life through chargeback to existing user departments at approximately \$28,000 to \$40,000 annually. In addition, annual ongoing hardware and software maintenance costs are estimated at \$15,000 to \$20,000 and the Wisconsin (CIB) charge is currently at \$12,000 annually that will be charged back based on actual costs included in monthly user fee charges to customers. 44 Sheriff's MDT unit replacements at \$155,000 in EUTF. Replacement charges at \$30,000 to \$50,000 in Sheriff's operating budget. Municipal customers will be responsible to plan for replacement of their mobile data terminal if existing units are not compatible with the new system.

### **Project Phasing**

2001-2002: Explore with the Sheriff's Department and municipal agencies, current and future countywide requirements for upgrading the mobile data communications system.

2003: Make follow-up contact with existing and potential users; conduct in-house focus groups to determine customer needs, establish system requirements, project workplan, educate users about the project and its scope.

2004: Engage consultant to finalize needs analysis and develop an RFP. Work with Purchasing Division and evaluation team to issue RFP and evaluate responses.

2005: Select vendor and implement project.

### **Previous Action**

Approved as new project in 2002-2006 Plan. Approved as planned in 2003-2007.

<b>Project #</b>	200109	<b>Project Title:</b>	Implement HHS Automated System
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Date:</b>	December 22, 2003		

<b>CAPITAL BUDGET SUMMARY</b>					
Year	2001	2002	2004	2005	Total
Project Phase	Analysis	Development and Implementation	Implementation	Completion	Project
Expenditure Budget	\$560,000	\$0	\$725,000	\$0	\$1,285,000
Revenue Budget	<u>\$560,000</u>	<u>\$0</u>	<u>\$725,000</u>	<u>\$0</u>	<u>\$1,285,000</u>
Net County Cost	\$0	\$0	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>			
Software	\$935,000	State Funding (SACWIS)		\$130,000	
Contract/Consulting Services	\$250,000	Human Services Fund Balance		\$1,155,000	
Contingency	\$100,000				
Total Project Cost	\$1,285,000	Total Revenue		\$1,285,000	
<b>EXPENDITURE BUDGET</b>	\$1,285,000	<b>REVENUE BUDGET</b>		\$1,285,000	

#### **Project Scope & Description**

The Department of Health and Human Services requires additional funding to complete the Automation of the Department-wide Case Management software solution. The RFP process used to select the vendor for the replacement of their automated A/R Billing used the majority of the funds available in this Capital Project as proposed and approved in the 2001 budgeting process. The selected package will bring the County into full compliance with the Federal mandates for the HIPAA Act of 1996, as it related to EDI transaction compliance.

The logical next step is to acquire the Case Management Software solution offered by the same vendor (which the RFP evaluation committee has deemed the best and almost only solution to the requirements presented by the department). The County has a price guarantee on the software that will not expire until after 2004. The estimated costs of the software, additional licenses, and server expansion are \$305,000.

The additional funding requested for this Capital project will complete the acquisition of the software solution, integrate the purchased solution into the business environment for the Department of Health and Human Services, complete the HIPAA compliance requirements for automated system environment for the department, and integrate the Case Management solution with the PeopleLink system developed for Health and Human Services by the Information Systems Division. In addition, the Current Special Living Fund system will be replaced using the CSM – Avatar Client Funds Management System. This module, its associated licenses, and hardware requirements are estimated at \$140,000.

Additionally, all data elements relevant to the County Data Warehouse will be mapped to that environment and automated interfaces to that environment will be generated.

This Capital project has been amended for fiscal 2004 to reflect the additional contract services requirements to facilitate an interface of SACWIS (State Child Welfare) into the Avatar (CWS) and PeopleLink packages at a cost of about \$200,000 less than the integration of SACWIS with County systems. The County plans on developing an interface module, which will automate the transmittal of the SACWIS data from the PeopleLink and the Avatar Case Management software packages to the state for Child Welfare reporting, in accordance with the data and business requirements defined by the state for the SACWIS system. Points of entry, for the data elements will be defined, and transmitted to the state in the selected transmittal environment. The estimated cost for this solution, which will include the transmittal environment, data analysis, and consulting services to interface the systems, is \$200,000.

#### **Location**

Health and Human Services, will be the major benefactors of this effort.

<b>Project #</b>	200109	<b>Project Title:</b>	Implement HHS Automated System
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Date:</b>	December 22, 2003		

### **Analysis of Need**

1. The current manual process creates inefficiencies across the entire department and as information requirements increase, satisfying those requirements is getting more costly and difficult to provide.
2. An automated Case Management system will greatly reduce the instance of human error that must be carefully monitored and corrected.
3. Automation of the business process supporting the Department of Health and Human Services has been a stated objective for the County for over 15 years.

### **Alternatives**

Alternatives to this project include:

1. Continue using the current partially automated process that is in place.
2. Develop the system in-house using a combination of County Information Systems staff and contracted services.

### **Ongoing Operating Costs**

The State of Wisconsin has determined that an annual maintenance fee for SACWIS will be incurred by the Department of Health and Human Service of \$80,000, which needs to be added to the operating budget for that department effective in 2005.

In addition there will be an approximate \$37,500 maintenance for the Case Management software package (beginning in 2006), which would be incorporated into the Health and Human Services Budget, \$38,250 in maintenance cost for the Medical A/R Billing Application Module of Avatar (beginning in 2005), and \$21,000 in maintenance costs for the Client Funds Management System (beginning in 2006).

### **Previous Action**

Capital Project 9090 completed some automation work from 1993-1999. Approved as new project in 2001-2005 Plan. Approved with change of scope in 2003-2007 plan.

<b>Project #</b>	RM_200027	<b>Project Title:</b>	Electronic Document Management System
<b>Department:</b>	DOA-Records Mgmt.Div.	<b>Manager:</b>	Susan Connelly, Purchasing Manager
<b>Phase:</b>	Planning & Implementation	<b>Manager:</b>	Rick Kunstmann, Records Management
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:59 PM

<b>CAPITAL BUDGET SUMMARY</b>							
Year	2001	2002	2003	2004	2005	2006	Total
Project Phase	Implement	Implement	Implement	Implement	Implement	Implement	Project
Expend. Budget	\$260,000	\$400,000	\$280,000	\$200,000	\$195,000	\$90,000	\$1,425,000
Rev. Budget	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net County Cost	\$260,000	\$400,000	\$280,000	\$200,000	\$195,000	\$90,000	\$1,425,000
<b>COST DOCUMENTATION</b>				<b>REVENUE</b>			
Hardware, Supplies Maintenance			\$297,365				
Software, Licenses Maintenance			\$249,750				
Professional Services			\$183,055				
Conversions			\$694,830				
Total Project Cost			\$1,425,000			Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>			\$1,425,000			<b>REVENUE BUDGET</b>	\$0

### **Project Scope & Description**

The Electronic Document Management System project follows the successful completion of the Electronic Retention System project (1991-2000). This second phase will add and expand imaging applications throughout the County (i.e., Corporation Counsel (Legal and Child Support), Court System (Probate, Family and Criminal/Traffic), District Attorney, Health & Human Services, Parks & Land Use (Environmental, Planning and Land Information Systems), Sheriff, Purchasing, etc.) Several of these applications will be Web-based, providing records access where required to the general public, or shared access within the confines of the County. Additionally, Versatile for Windows must be upgraded to Versatile Enterprise to meet the County's records retention needs, because the existing software will be phased out. Versatile Enterprise offers the County-wide document retention system, which may be interfaced with Novell GroupWise, the County's existing e-mail system, and Optika, the County's existing imaging system, to provide consistent retention scheduling regardless of media type.

### **Location**

On a case-by-case basis, imaging hardware will be located in DOA-Records Management and/or the respective department/divisions. DOA-Records Management staff in cooperation with DOA-Information Systems will administer the imaging application software.

### **Analysis of Need**

Converting paper document into electronic images provides users with a more time efficient records management tool to store, retrieve, display, and disseminate information within an organization.

### **Alternatives**

- 1) Increase staff to handle manual filing duties as more records are filed with the County, which will lead to increased salary and benefit costs to the County.
- 2) Provide filing systems, space, equipment, and supplies to retain the ever-increasing number of County records, which will lead to labor-intensive filing systems, reduction of active workspace, and increase equipment and supply costs.

<b>Project #</b>	RM_200027	<b>Project Title:</b>	Electronic Document Management System
<b>Department:</b>	DOA-Records Mgmt.Div.	<b>Manager:</b>	Susan Connelly, Purchasing Manager
<b>Phase:</b>	Planning & Implementation	<b>Manager:</b>	Rick Kunstmann, Records Management
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 2:59 PM

### **Ongoing Operating Costs**

Imaging annual hardware maintenance = \$19,236 for 2 high volume scanner/microfilers (120 ppm), \$3,085 for 1 optical disk jukebox (9.1 GB) and external drive; \$4,932 for 1 optical disk jukebox (2.6 GB) and external drive. Imaging annual software maintenance = \$27,090 for concurrent licenses (105 licenses), \$4,760 for County-wide site seat licenses (unlimited licenses); \$2,050 for scanning software (2 licenses); \$650 for indexing software (2 licenses); and \$715 for document export software. Most of these costs are included in the DOA - Records Management operating budget, but the concurrent and site license fees are passed on to the user departments by means of inter-department charges on an annual basis.

### **Previous Action**

Two imaging programs were previously implemented in the Register of Deeds' Vital Statistics and Real Estate divisions, utilizing Optika imaging software. Additional Optika imaging projects were installed in Parks & Land Use (Environmental Division and Land Information Systems), Corporation Counsel (Child Support and Legal Divisions) Sheriff's, District Attorney, Probate, Clerk and Courts (Family, Criminal/Traffic and Juvenile), COLD (Computer output to Laser Disk), and County-wide for BAS accounts payable invoices. In future years, imaging projects will be added or expanded in other departments and/or divisions. DOA - Records Management previously implemented Versatile for Windows records management software for tracking inactive records at the County Records Center, and maintaining County records retention schedules. The records management software will be able to track electronic records with the upgrade to Versatile Enterprise within the next two years. Completed upgrade of imaging and scanning software, and replaced optical disk jukebox. Also, completed media migration of images (transfer from a lower capacity, obsolete optical disks to higher capacity optical disks) for Register of Deeds/Vital Statistics. Implemented imaging systems for Corporation Counsel/Legal and Parks & Land Use/Environmental Health. Approved as planned in the 2001-2006 Plan. Approved with cost update in 2003-2007 plan.

### **Project Phasing**

2001 Phase Completed

2002 **Plan and Implement imaging systems** for Clerk of Courts (Juvenile and Probate). In 2002, Health & Human Services chose to move imaging for Health & Human Services/Clinical Services to 2003, because Health & Human Services is not ready to start the project. In 2002, Clerk of Courts chose not to pursue imaging at this time for the Civil, Criminal-Traffic, and Family Divisions. This decision may be revisited in the future. **Backfile conversion imaging projects** for Clerk of Courts (Juvenile and Probate), Corporation Counsel (Child Support and Legal), and Parks and Land Use/Environmental Health. **Add** large format scanner for large-document scanning projects in Facilities Management, Parks & Land Use, Register of Deeds, and Transportation.

2003 **Plan and Implement imaging systems** for District Attorney, Sheriff's, Probate, DOA (Purchasing Division), and **pilot a Web-based imaging application** in the Environmental Division of Parks and Land Use. **Backfile conversion imaging project** for Probate. **Upgrade records management software** from Versatile for Windows to Versatile Enterprise for DOA-Records Management. **Add, test, and begin to implement** Web Module for Versatile Enterprise records management software. **Piloting a touch screen application** in the Vital Statistics Division of the Register of Deeds for easy access to records by the general public.

2004 **Plan and implement imaging systems** for the Mental Health Division of HHS. **Backfile conversion imaging project** for the Mental Health Division. **Add other Web-based applications** on an as needed basis. **Add** a scanner/microfilmer and a larger capacity optical disk jukebox. **Add, test, and begin to implement** Electronic Functions, the electronic records management module, to the Versatile Enterprise records management software. **Upgrade** the Optika imaging software to version 3.0.

2005 **Plan and implement imaging systems** for the other divisions in HHS. **Backfile conversion imaging projects** for those other HHS Divisions.

2006 **Continue backfile conversion imaging projects** for the remaining HHS divisions.

<b>Project #</b>	DOA-200327	<b>Project Title:</b>	Upgrade Collections (CUBS) System
<b>Department:</b>	DOA-Collections	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Implementation	<b>Manager:</b>	Sean Sander, Business Services Manager
<b>Budget Action:</b>	As Planned	<b>Date:</b>	December 22, 2003, 3:00 PM

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2003	2004	Total
Project Phase	<u>Design</u>	<u>Implementation</u>	Project
Expenditure Budget	\$25,000	\$250,000	\$275,000
Revenue Budget	<u>\$25,000</u>	<u>\$250,000</u>	<u>\$275,000</u>
Net County Cost	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Consulting Services/Project Mgmt Ser	\$65,000	Collections Fund	
Hardware/Software	\$185,000	Balance Transfer	\$275,000
Training	\$15,000		
Contingency	<u>\$10,000</u>		
Total Project Cost	\$275,000	Total Revenue	\$275,000
<b>EXPENDITURE BUDGET</b>	<b>\$275,000</b>	<b>REVENUE BUDGET</b>	<b>\$275,000</b>

### **Project Scope & Description**

The existing collection software system was acquired from Columbia Ultimate Business Systems (CUBS) in 1994. This project represents the planned future replacement and upgrade of the current system with CUBS's new Aliant product which is the foundation for their new generation of collection software products. This project supports the County's planned migration away from the universe database to one of the County's standard databases (Oracle or Microsoft's MS/SQL Server), a more current operating system and a faster machine. This environment would support interfaces with other County applications. This project is dependant and may be slightly delayed based on the vendor's staged development of the new product and the collection division migrating only upon equal or enhanced functionality.

### **Location**

A dedicated server located in Information System will be acquired. The software will be administered by DOA-Collections with support from the vendor. Information Systems will provide network support.

### **Analysis of Need**

Collection division staff will benefit from the enhanced functionality of the software. Internal and external users of the Collection Division will also benefit from the increased productivity associated with a faster machine. Purchase/implementation of this new collection software coupled with the County's purchase/implementation of the Police Records Management and Protect system will enable Information Systems to discontinue support of the current universe database environment at a cost savings of \$50,000 to \$75,000/year.

### **Alternatives**

Alternatives to this project include:

1. Do nothing. Continue using our existing software in a universe environment at a cost of \$75,000 per year with slower processing.
2. Terminate our relationship with CUBS and purchase a collection software package from a less experienced vendor. Our current vendor is the leading provider of collection software services and is the only known provider of collection software specifically designed for government use. Changing vendors would require costly custom programming and significant staff resources for data conversion and transition.

### **Ongoing Operating Costs**

Software maintenance/license fees are expected to be 15-20% of the software purchase price or \$22,500-\$30,000 starting in 2005.

### **Previous Action**

Approved as a new project in 2003-2007 Plan.

<b>Project #</b>	IS-200412	<b>Project Title:</b>	Oracle Infrastructure Upgrade
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	New	<b>Date:</b>	December 22, 2003

<b>CAPITAL BUDGET SUMMARY</b>				
Year	2004	2005	2006	Total
Project Phase	Analysis and Installation	Completion		Project
Expenditure Budget	\$355,000	\$0	\$0	\$355,000
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net County Cost	\$355,000	\$0	\$0	\$355,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>		
Hardware/Software	\$205,000			
Consulting Services	<u>\$150,000</u>			
Total Project Cost	\$355,000			\$0
<b>EXPENDITURE BUDGET</b>	<b>\$355,000</b>	<b>REVENUE BUDGET</b>		<b>\$0</b>

### Project Scope & Description

In 1998, the County purchased and installed several components linked to the Oracle database and applications environment. The County, over that timeframe has developed several systems on the Oracle platform, using Oracle development and database tools.

Oracle has announced several environment changes that the County needs to accommodate for.

- Our current in-house developed applications were constructed using Oracle Forms 6.0. We have determined that the latest Operating System for our PCs cannot support this version of Oracle Forms. Oracle has indicated that the County must migrate their forms from version 6.0 to version 9.i. This has a direct impact on all PeopleLink users within Health and Human Services, Tract Index within the Register of Deeds, and several Oracle Government Financials applications.
- In 2000, the County migrated from the Enterprise License agreement we had with Oracle to their Power Unit pricing structure. Oracle no longer markets database licenses under that structure. Since the County is now in a position that it needs to add processing power to support the expanding Oracle requirements, the County must purchase all new licenses under Oracle's Processor-based licensing agreement. To accomplish this, the County must migrate their existing Oracle Power Unit licenses to the Process-based license formula and purchase the additional licenses at the same time.
- With the addition of several Oracle-based applications, Systems Technology has determined that additional processor power will be required to support the environment.
- Oracle has announced version 12.1 of Oracle Government Financials. This capital project will evaluate the application, as it relates to the County and as appropriate, implement the upgrades.

### Location

All departments reliant on business continuity will benefit from this project

### Analysis of Need

1. As long as the County continues to utilize the Oracle Government Financials application suite, the County must continue to evaluate the upgrades published by Oracle and implement those upgrades that keep the County in compliance with our support agreement with Oracle.
2. If the County is to continue satisfying the ever-increasing demands of utilization of our database systems and applications, the County will continue to need to keep ahead of demand for processing power. The current Oracle

<b>Project #</b>	IS-200412	<b>Project Title:</b>	Oracle Infrastructure Upgrade
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	New	<b>Date:</b>	December 22, 2003

Servers have an estimated three-year life remaining, and demand is beginning to tax their processing capability currently.

3. The current version of Forms, dictates that End User Services retro-install Windows 2000 on all machines utilizing BAS and all of HHS' desktops. This would be eliminated with a migration to Forms 9.i. There is an added benefit made available to the County applications that would be converted to Forms 9.i; this migration converts the applications to web-enabled applications. They would therefore be available from any browser. This would make remote access to PeopleLink, utilizing a secured portal into the County web environment, a very viable solution, virtually eliminating issues surrounding remote access for Health and Human Services.

### **Alternatives**

Alternatives to this project include:

1. Continue using the current environment and fall out of compliance
2. Continue backdating the operating systems on the new PCs received into the County to Microsoft Windows 2000 Operating System.

### **Ongoing Operating Costs**

Ongoing maintenance fees for the database are \$56,000, representing a \$38,000 per year savings.

### **Previous Action**

Proposed as new project in 2004-2008 plan.

---

<b>Project #</b>	IS-200413	<b>Project Title:</b>	CITRIX server Expansion
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Testing and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	New	<b>Date:</b>	December 22, 2003

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004	2005	Total
Project Phase	Analysis and Installation	Completion	Project
Expenditure Budget	\$150,000	\$0	\$150,000
Revenue Budget	<u>\$150,000</u>	<u>\$0</u>	<u>\$150,000</u>
Net County Cost	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Hardware/Software	\$100,000	End User Technology Fund	
Consulting Services	\$50,000	Balance	\$150,000
Total Project Cost	\$150,000		
<b>EXPENDITURE BUDGET</b>	\$150,000	<b>REVENUE BUDGET</b>	\$150,000

### **Project Scope & Description**

The County has had a CITRIX server environment since 1999. Over the past two years, Information Systems has been testing the CITRIX environment as a possible production environment to significantly enhance the computing capacity for desktop applications for the County. The County now provides remote computing access, using the CITRIX server environment to support the Computer Aided Mass Appraisal system for Muskego and Menominee Falls, remote processing on county systems for the Sheriff sub-stations, and remote field access for several engineering functions for Parks and Land Use. Using remote dial-in and Virtual Private Network technology, the CITRIX server environment provides users with high-speed system access to a full suite of County applications, in a very secure Firewall topology.

This experiment in the use of the CITRIX server environment has proven to be very successful. The intent of this Capital program is to expand the production use of the CITRIX server environment to include a majority of applications that are currently supported by our desktop PC infrastructure. The testing Information Systems has done with the limited CITRIX server environment indicated that employing this technology for Waukesha County would result in several technology savings opportunities:

- The CITRIX server environment allows the user to set up a desktop environment on the CITRIX server so that it emulates the exact PC image they currently use on their desktop. This allows the user to take advantage of server processor speeds that cannot be duplicated on any desktop PC. Therefore, at a minimum, the user will not have to upgrade their PC, extending the life of the PC, because it will not have to be upgraded to increase processor speeds. When the PC does have to be replaced, it can be replaced with a Terminal Server device that costs less than half of what the Desktop PC replacement cost will be.
- PC application upgrades, that currently have to be deployed through a series of steps, including visits to the PC by a County PC technician, can now be accomplished by simply upgrading the CITRIX server one time, and when the user accesses the application the next time, it will be fully upgraded.
- Transition to the Terminal Server devices will dramatically reduce the instances of PC technician support requirements, since the Terminal Server devices have no moving parts.
- The Terminal Server devices are typically 5"X7"X1.5". The small device will take up much less desktop space, gives off much less heat than a PC, and requires dramatically less electricity to power.
- Transition to the CITRIX server environment will dramatically improve the county's ability to "secure" the network environment. The CITRIX server environment does not allow access to unauthorized applications, has no "C" drive, Firewall protection is stronger at the server level.
- CITRIX server environments allow for "true" portability. The user can sign-on to any port and their custom configuration will be displayed for them. This includes if the user signs on to the county system from home or from the road, dialing in to the county system, or using a secured VPN Internet connection.

<b>Project #</b>	IS-200413	<b>Project Title:</b>	CITRIX server Expansion
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Testing and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	New	<b>Date:</b>	December 22, 2003

The Information Systems analysis has indicated that, at best, this CITRIX server environment can be employed for approximately 80% of the county users. Several "power" users of county systems will still require desktop PCs, since the nature of their computer usage requires desktop computing capability, or the applications they use have not been certified to execute using the CITRIX server environment.

Future considerations for the user of the CITRIX environment will include remote access to the County systems for the municipalities in the County. As applications become certified for the CITRIX server environment, they will be added, and if applicable be made available to these municipalities.

### **Location**

All departments reliant on business continuity will benefit from this project.

### **Analysis of Need**

1. Information System's need for Desk Top PC support has grown over the past three years and will continue to grow unless a different technical infrastructure is put in place to reduce this need.
2. Security continues to be a major concern for the County. This is especially true with the introduction of the HIPAA Act security requirements that will have to be in place during 2005.
3. Software licensing compliance will be greatly enhanced with the installation of this technology.

### **Alternatives**

Continue using the current desktop PC environment.

### **Ongoing Operating Costs**

The implementation of this CITRIX server environment should result in a net savings to the End User Technology Fund of \$75,000 starting in 2006.

### **Previous Action**

Proposed as new project in 2004-2008 plan.

---

<b>Project #</b>	IS-200206	<b>Project Title:</b>	Fiber Link to County Facilities
<b>Department:</b>	County-wide	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	C-Scope	<b>Date:</b>	December 22, 2003

<b>CAPITAL BUDGET SUMMARY</b>					
Year	2002	2003	2004	2005	Total
Project Phase	Design	Development	Installation	Completion	Project
Expenditure Budget	\$200,000	\$210,500	\$350,000	\$50,000	\$810,500
Revenue Budget	<u>\$200,000</u>	<u>\$210,500</u>	<u>\$350,000</u>	<u>\$50,000</u>	<u>\$810,500</u>
Net County Cost	\$0	\$0	\$0	\$0	\$0
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>		
Hardware/Software		\$525,000	End User Technology Fund		
Cabling		\$260,000	Balance Transfer		\$810,500
Consulting Services		<u>\$25,500</u>			
Total Project Cost		\$810,500	Total Revenue		\$810,500
<b>EXPENDITURE BUDGET</b>		\$810,500	<b>REVENUE BUDGET</b>		\$810,500

### **Project Scope & Description**

In 2003, the County, in cooperation with the City of Waukesha and the Waukesha School District, installed Fiber Optic cable that linked the Courthouse complex (County Courthouse, Administration Building, Sheriff/Jail Facility, Health & Human Services Facility, Public Health Facility, and the Mental Health Facility) with the Expo facility, Huber, the Highway Garage, the Communication Center, and the Radio Service Tower.

As part of preparation for security against terrorism attacks, which could cripple the County's 911 dispatch capability, and, other acts of nature, the Capital plan request focuses on system redundancy and Business Continuity. The first goal of this plan is to complete the loop from the Communication Center back to the Courthouse Complex, by installing Fiber optic Cable from the East end of the Communication Center, routing along Northview Dr to the East, adding the Airport to the fiber link, and returning to the Courthouse complex along Pewaukee Road. This will prevent the suspension of fiber support from the computer room, located at the County Courthouse, to the Communication Center, in the event of any attempt to "cut" the fiber intentionally (terrorism) or an accidental cut to the current fiber link.

Additionally, this Capital plan will install a duplicate Storage Area Network environment at the Dispatch Center's computer room. The second SAN environment will allow the County to "mirror" the storage environment from the Computer Room to this second device. This second SAN would become the primary storage environment for the Dispatch software and data infrastructure, "mirroring" the data from this second device back to the existing SAN environment in the Courthouse Computer room. Using this infrastructure will insure that all essential county data is replicated and recoverable in the event of an incident that dictates data or business restoration of systems.

This infrastructure and SAN environment will afford the County the maximum business recoverability if either location were to experience systemic failures and is consistent with the overall direction of the County's Business Continuity objectives.

### **Location**

All departments reliant on business continuity will benefit from this project.

### **Analysis of Need**

1. As part of the County's commitment to our partners in the Countywide Dispatch initiative, system reliability and recoverability are key components. Although the likelihood of a terrorist attack or a complete systemic failure is relatively low, the opportunity does still exist. This project should dramatically erase any and/or all objections to the County's preparedness for these types of failures.
2. With the ever expanding data storage needs within the County, and the anticipated high volumes of storage requirements for Dispatch system that will be servicing multiple agencies across Waukesha County, the addition of a second SAN environment will ease the impact on the SAN located in the Courthouse Computer room, provide instant recoverability of mirrored data, and allow for much faster establishment of business capability in the event of a Business Continuity event that requires the activation of the plan.

### **Alternatives**

Alternatives to this project include:

1. Continue using the current network and its associated risks in the event of a systemic failure.
2. Establish a Wide-Area Network that is T3 based. This should provide the required bandwidth for County operations but has an annual subscription fee of approximately \$150,000 for this phone line linkage. (the expected life span of the fiber solution is 25 years –with annual maintenance charges of \$5,000.

### **Ongoing Operating Costs**

Ongoing maintenance fees for the fiber are \$7,500. Ongoing maintenance for the SAN environment will be \$13,000.

### **Previous Action**

Approved as a new project in 2002-2006 Plan. Approved as planned in 2003-2007 plan and modified with ordinance in 2003.

<b>Project #</b>	IS-200411	<b>Project Title:</b>	HIPAA Security
<b>Department:</b>	DOA-Information Systems	<b>Sponsor:</b>	DOA
<b>Phase:</b>	Design and Implementation	<b>Manager:</b>	Mike Biagioli
<b>Budget Action:</b>	New	<b>Date:</b>	December 22, 2003

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004	2005	Total
Project Phase	Analysis and Design	Installation	Project
Expenditure Budget	\$50,000	\$110,000	\$160,000
Revenue Budget	\$0	\$0	\$0
Net County Cost	\$50,000	\$110,000	\$160,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Hardware/Software	\$60,000		
Consulting Services	\$100,000		
Total Project Cost	\$160,000		\$0
<b>EXPENDITURE BUDGET</b>	\$160,000	<b>REVENUE BUDGET</b>	\$0

### **Project Scope & Description**

The Federal requirements for the Security aspects of the HIPAA Act have been published. An initial analysis of the published regulations indicate that there are enough significant security related enhancements required for our network and the associated databases, that a Capital Plan is warranted.

As in the past, with the Information Technology aspects, as they related to the HIPAA Act, the usage of Consulting Services, in the interpretation and analysis of the requirements will once again be employed.

Infrastructure modifications will be kept to a minimum, but Database analysis, and the redeployment of data locations, new server software, and data isolation will be required.

Health and Human Services has determined that assistance, from consulting Services, will be required to assist the Department in the implementation of the Act requirements.

As well as meeting the Act's requirements, Information Systems will also determine if the security requirements imposed by the Act are also well suited for application against all systems supported by the County.

### **Location**

Health and Human Services and the Sheriff's Department will be the major benefactors of this effort

### **Analysis of Need**

1. The Act has specific defined requirements with target dates that require the County to take action on this effort.

### **Alternatives**

Alternatives to this project include:

1. Continue using the current security environment and be out of compliance with the Federal requirements.

### **Ongoing Operating Costs**

Ongoing maintenance fees are unknown.

### **Previous Action**

Proposed as new project in 2004-2008 plan.

<b>Project #</b>	200414	<b>Project Title:</b>	County wide Cashiering
<b>Department:</b>	DOA	<b>Sponsor:</b>	Information Systems
<b>Phase:</b>	Design	<b>Manager:</b>	Sean Sander
<b>Date:</b>	December 22, 2003		

<b>CAPITAL BUDGET SUMMARY</b>			
Year	2004	2005	Total
Project Phase	Analysis	Completion	Project
	Design		
Expenditure Budget	\$300,000	\$145,000	\$445,000
Revenue Budget	\$0	\$0	\$0
Net County Cost	\$300,000	\$145,000	\$445,000
<b>COST DOCUMENTATION</b>		<b>REVENUE</b>	
Software	\$250,000		
Hardware	\$100,000		
Interfaces	\$25,000		
Training	\$10,000		
Licenses	\$10,000		\$0
Contingency	\$50,000		
Total Project Cost	\$445,000	Total Revenue	\$0
<b>EXPENDITURE BUDGET</b>	\$445,000	<b>REVENUE BUDGET</b>	\$0

### **Project Scope & Description**

The Scope of this Capital Project is to provide the County with an Enterprise-wide (Countywide) Cashiering solution which would support all County departments that currently employ a cashiering function, and for future uses of receiving monies for County services and receipting for the received funds.

The ideal single solution would provide "back office" functionality which would automatically update diverse "stand alone" Accounts Receivable systems and interface with the County's central financial system.

This solution would compliment the ePayments and e-Receipting functions currently supported and expanding usage expected for the County.

The project also incorporates electronic receipting that allows for direct electronic recording of documents. Recent changes in federal and state law allow electronic recording of real estate documents. A cashiering system that allows the Register of Deeds office to accept electronic documents for recording opens a new area of potential efficiency in document processing. Currently in Wisconsin, two counties and two financial institutions for satisfaction of mortgage documents use erecording. Last year the Register of Deeds office recorded 4,922 satisfactions of mortgages from these two institutions, out of a total of 60,103 satisfactions of mortgages. E-recording would eliminate the manual entry and verification of these documents into the Land Records system.

The County uses many cashiering systems. These will have to be evaluated as part of this initiative. These include:

- o Register of Deeds
- o Health and Human Services
- o Clerk of Courts

<b>Project #</b>	200414	<b>Project Title:</b>	County wide Cashiering
<b>Department:</b>	DOA	<b>Sponsor:</b>	Information Systems
<b>Phase:</b>	Design	<b>Manager:</b>	Sean Sander
<b>Date:</b>	December 22, 2003		

- o The Sheriff's Department
- o Parks and Land Use
- o Department of Administration
- o Treasurer
- o County Clerk
- o UW-Extension
- o Senior Services
- o Child Support

Most of these systems are centralized to the Treasurer, as the Depository for the County, and that information is input into the Business Accounting System. Many of these interfaces are manual and prone to error and other issues.

Several of these Cashiering systems are using aging technology and need to be upgraded or replaced.

This would ultimately enable a Centralized Receipting function for the County.

Additional to the scope of this initiative, would be the development of a full incorporation of the Countywide Data Warehouse as the repository of this information.

### **Location**

Most departments within the County will be impacted by this Capital project.

### **Analysis of Need**

A new cashiering system with the ability to record documents electronically addresses the Register of Deeds' strategic plan critical issue #1 and the County's strategic plan by increasing the use of technology to improve customer service and efficiency. As the County migrates to web-based interaction with their constituents, the requirement to provide a centralized cashiering function that accommodates e-Commerce will become more important.

Several of the current cashiering systems cannot be upgraded because of the aging technology these were developed for.

Centralizing the cashiering function will reduce manual interfaces with the County's Business Accounting System, standardize the cash handling function and allow for better management of County funds.

### **Alternatives**

Continue handling cash and Accounts Receivable as the County currently handles them, replacing systems as they fail, and continue to manually transfer cash internally for the County.

### **Ongoing Operating Costs**

The maintenance contract for the solution chosen is expected to be at the 15% of purchase price level. Licensing fees for additional Business Objects users would add approximately \$5,000, overall, for the County, to be allocated by user areas. Maintenance of these licenses would be approximately \$750 annually.

### **Previous Action**

Proposed as new project in 2004-2008 plan.

---